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=> d his nofile

     (FILE 'HOME' ENTERED AT 14:11:33 ON 22 MAY 2006)

     FILE 'REGISTRY' ENTERED AT 14:11:38 ON 22 MAY 2006
L1             STRUCTURE UPLOADED
L2             QUE ABB=ON  PLU=ON  L1
L3          25 SEA SSS SAM L1
L4             STR L1
L5          18 SEA SSS SAM L4
L6             STR L4
L7          19 SEA SSS SAM L6
L8           1 SEA ABB=ON  PLU=ON  L7 NOT L5
               D SCAN
L9             STR L6

     FILE 'STNGUIDE' ENTERED AT 14:21:54 ON 22 MAY 2006

     FILE 'REGISTRY' ENTERED AT 14:32:01 ON 22 MAY 2006
L10            STRUCTURE UPLOADED
L11            QUE ABB=ON  PLU=ON  L10
L12         16 SEA SSS SAM L10
L13        300 SEA SSS FUL L10

     FILE 'CAPLUS' ENTERED AT 14:33:23 ON 22 MAY 2006
L14         42 SEA ABB=ON  PLU=ON  L13
L15         23 SEA ABB=ON  PLU=ON  L14 NOT (PY>2002 OR AY>2002 OR PRY>2002)
               E MADER M/AU
L16         71 SEA ABB=ON  PLU=ON  ("MADER M"/AU OR "MADER M M"/AU OR "MADER
               MARY"/AU OR "MADER MARY M"/AU OR "MADER MARY MARGARET"/AU)
               E MARTIN CAB L/AU
L17         37 SEA ABB=ON  PLU=ON  ("MARTIN CABREJAS L M"/AU OR "MARTIN
               CABREJAS LUISA M"/AU OR "MARTIN CABREJAS LUISA MARIA"/AU OR
               "MARTIN CABREJAS M A"/AU OR "MARTIN CABREJAS MARIA"/AU OR
               "MARTIN CABREJAS MARIA A"/AU OR "MARTIN CABREJAS MARIA M"/AU)
               E RICHETT M/AU
L18         40 SEA ABB=ON  PLU=ON  ("RICHETT M"/AU OR "RICHETT M E"/AU OR
               "RICHETT MICHAEL E"/AU OR "RICHETT MICHAEL ENRICO"/AU)
L19          5 SEA ABB=ON  PLU=ON  (L16 AND (L17 OR L18)) OR (L17 AND L18)
               E US2005-535002/APPS
L20          1 SEA ABB=ON  PLU=ON  US2005-535002/AP
               SEL RN L20

     FILE 'REGISTRY' ENTERED AT 14:36:55 ON 22 MAY 2006
L21         58 SEA ABB=ON  PLU=ON  (115063-55-3/BI OR 123126-59-0/BI OR
               124043-72-7/BI OR 128851-73-0/BI OR 132630-12-7/BI OR 14315-14-
               1/BI OR 145951-27-5/BI OR 1576-47-2/BI OR 17347-32-9/BI OR
               271-89-6/BI OR 272-67-3/BI OR 274-09-9/BI OR 4923-87-9/BI OR
               496-11-7/BI OR 50-84-0/BI OR 5279-49-2/BI OR 603-76-9/BI OR
               611-00-7/BI OR 702693-31-0/BI OR 702693-33-2/BI OR 702693-35-4/
               BI OR 702693-38-7/BI OR 702693-40-1/BI OR 702693-42-3/BI OR
               702693-44-5/BI OR 702693-46-7/BI OR 702693-47-8/BI OR 702693-48
               -9/BI OR 702693-49-0/BI OR 702693-50-3/BI OR 702693-51-4/BI OR
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               -8/BI OR 702693-56-9/BI OR 702693-57-0/BI OR 702693-58-1/BI OR
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                 702693-73-0/BI OR 702693-78-5/BI OR 78222-69-2/BI OR 89-75-8/BI
                  OR 91004-27-2/BI OR 95-15-8/BI)
L22           36 SEA ABB=ON  PLU=ON  L21 AND C6/ES
L23            7 SEA ABB=ON  PLU=ON  L22 AND S>0 AND O>2 AND N>1 AND NR>1 AND
                 NRS>1
                 D SCAN L23
L24          432 SEA ABB=ON  PLU=ON  "DIHYDROBENZO" AND "DIOXIN"
L25        16240 SEA ABB=ON  PLU=ON  "1,3-DIOXOL"
L26          455 SEA ABB=ON  PLU=ON  L25 AND NR=1
L27         3255 SEA ABB=ON  PLU=ON  "BENZOTHIEN"
L28           38 SEA ABB=ON  PLU=ON  L27 AND NR=2
L29       191286 SEA ABB=ON  PLU=ON  "BENZOTHIAZOL"
L30          744 SEA ABB=ON  PLU=ON  "BENZOFURYL"
L31           91 SEA ABB=ON  PLU=ON  L13 AND NR>2
L32      2039169 SEA ABB=ON  PLU=ON  (OC4-C6 OR OCOC2-C6 OR NCSC2-C6 OR NC4-C6
                 OR SC4-NC5 OR SC4-C6 OR OC2OC2-C6 OR OC4-C6-C6 OR C5-C6 OR
                 C4-C6)/ES
L33           37 SEA ABB=ON  PLU=ON  L32 AND L13

     FILE 'CAPLUS' ENTERED AT 15:07:44 ON 22 MAY 2006
L34            2 SEA ABB=ON  PLU=ON  L33

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FILE 'CAPLUS' ENTERED AT 15:09:21 ON 22 MAY 2006
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FILE COVERS 1907 - 22 May 2006  VOL 144 ISS 22
FILE LAST UPDATED: 21 May 2006  (20060521/ED)

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http://www.cas.org/infopolicy.html
'OBI' IS DEFAULT SEARCH FIELD FOR 'CAPLUS' FILE

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L10             STR
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NSPEC   IS R      AT  35
NSPEC   IS R      AT  36
NSPEC   IS C      AT  37
NSPEC   IS C      AT  38
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NSPEC   IS C      AT  40
NSPEC   IS C      AT  41
NSPEC   IS C      AT  42
NSPEC   IS C      AT  43
NSPEC   IS C      AT  44
NSPEC   IS C      AT  45
NSPEC   IS C      AT  46
CONNECT IS E1  RC AT  25
CONNECT IS E1  RC AT  32
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MLEVEL  IS CLASS  AT   1  2  3  4 11 14 15 22 23 24 25 32 34 37 38 39 40
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DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS  46

STEREO ATTRIBUTES: NONE
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L32     2039169 SEA FILE=REGISTRY ABB=ON  PLU=ON  (OC4-C6 OR OCOC2-C6 OR
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                OC4-C6-C6 OR C5-C6 OR C4-C6)/ES
L33          37 SEA FILE=REGISTRY ABB=ON  PLU=ON  L32 AND L13
L34           2 SEA FILE=CAPLUS ABB=ON  PLU=ON  L33


=> d ibib abs hitstr l34 tot

L34  ANSWER 1 OF 2  CAPLUS  COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER:        2005:74670  CAPLUS
DOCUMENT NUMBER:         142:316746
TITLE:                   Acyl sulfonamide anti-proliferatives. Part 2: Activity
                         of heterocyclic sulfonamide derivatives
AUTHOR(S):               Mader, Mary M.; Shih, Chuan; Considine, Eileen; De
                         Dios, Alfonso; Grossman, Cora Sue; Hipskind, Philip
                         A.; Lin, Ho-Shen; Lobb, Karen L.; Lopez, Beatriz;
                         Lopez, Jose E.; Cabrejas, Luisa M. Martin; Richett,
                         Michael E.; White, Wesley T.; Cheung, Yiu-Yin; Huang,
                         Zhongping; Reilly, John E.; Dinn, Sean R.
CORPORATE SOURCE:        Lilly Research Laboratories, Eli Lilly and Company,
                         Indianapolis, IN, 46285, USA
SOURCE:                  Bioorganic & Medicinal Chemistry Letters (2005),
                         15(3), 617-620
                         CODEN: BMCLE8; ISSN: 0960-894X
PUBLISHER:               Elsevier B.V.
DOCUMENT TYPE:           Journal
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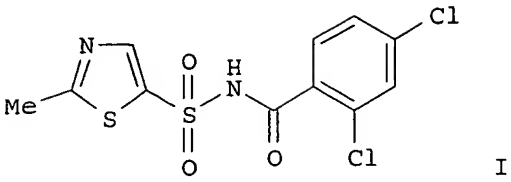
LANGUAGE: English
OTHER SOURCE(S): CASREACT 142:316746
GI

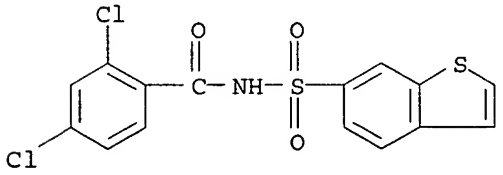


I

AB The anti-proliferative activity of acylated heterocyclic sulfonamides is described in vascular endothelial growth factor-dependent human umbilical vascular endothelial cells (VEGF-HUVEC) and in HCT116 tumor cells in a soft agar diffusion assay. An example compound thus prepared and studied was 2,4-dichloro-N-[(2-methyl-5-thiazolyl)sulfonyl]benzamide (I).

IT **702693-48-9P**, N-[2,4-Dichlorobenzoyl]benzo[b]thiophene-6-sulfonamide **702693-53-6P**, N-[2,4-Dichlorobenzoyl]benzo[b]thiophene-5-sulfonamide **702693-54-7P**, N-[2,4-Dichlorobenzoyl]benzo[b]thiophene-2-sulfonamide **848361-71-7P** **848361-73-9P**
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation of di(chloro)-N-[(benzo[b]thienyl)sulfonyl]benzamide and study of its antiproliferative activity in vascular endothelial growth factor-dependent human umbilical vascular endothelial cells)

RN 702693-48-9 CAPLUS
CN Benzamide, N-(benzo[b]thien-6-ylsulfonyl)-2,4-dichloro- (9CI) (CA INDEX NAME)



RN 702693-53-6 CAPLUS
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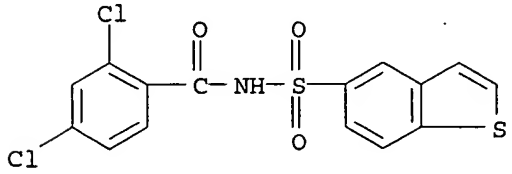

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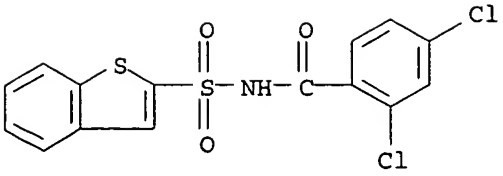

RN 848361-71-7 CAPLUS
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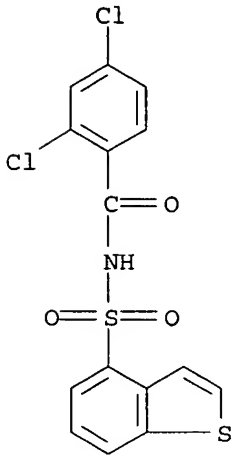

RN 848361-73-9 CAPLUS
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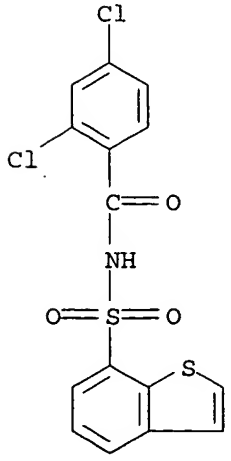
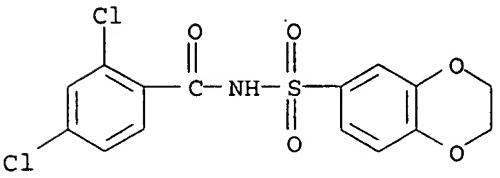


IT **702693-61-6P**, N-[2,4-Dichlorobenzoyl]-2,3-dihydrobenzo[1,4]dioxane-6-sulfonamide
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(preparation of di(chloro)-N-[(benzodioxinyl)sulfonyl]benzamide and study of its antiproliferative activity in vascular endothelial growth factor-dependent human umbilical vascular endothelial cells)

RN 702693-61-6 CAPLUS

CN Benzamide, 2,4-dichloro-N-[(2,3-dihydro-1,4-benzodioxin-6-yl)sulfonyl]- (9CI) (CA INDEX NAME)



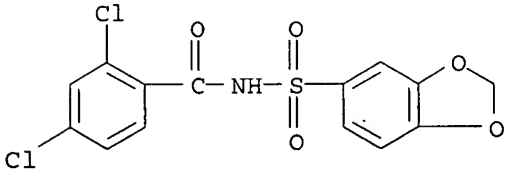
IT **702693-62-7P**, N-[2,4-Dichlorobenzoyl]benzo[1,3]dioxole-5-sulfonamide

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(preparation of di(chloro)-N-[(benzodioxolyl)sulfonyl]benzamide and study of its antiproliferative activity in vascular endothelial growth factor-dependent human umbilical vascular endothelial cells)

RN 702693-62-7 CAPLUS

CN Benzamide, N-(1,3-benzodioxol-5-ylsulfonyl)-2,4-dichloro- (9CI) (CA INDEX NAME)



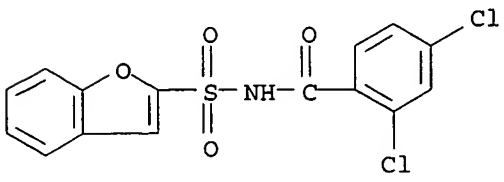
IT **702693-55-8P**, N-[2,4-Dichlorobenzoyl]benzofuran-2-sulfonamide
702693-69-4P, N-[2,4-Dichlorobenzoyl]benzofuran-6-sulfonamide
848361-75-1P 848361-79-5P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(preparation of di(chloro)-N-[(benzofuranyl)sulfonyl]benzamide and study of its antiproliferative activity in vascular endothelial growth factor-dependent human umbilical vascular endothelial cells)

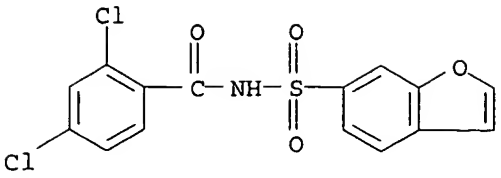
RN 702693-55-8 CAPLUS

CN Benzamide, N-(2-benzofuranylsulfonyl)-2,4-dichloro- (9CI) (CA INDEX NAME)



RN 702693-69-4 CAPLUS

CN Benzamide, N-(6-benzofuranylsulfonyl)-2,4-dichloro- (9CI) (CA INDEX NAME)



RN 848361-75-1 CAPLUS
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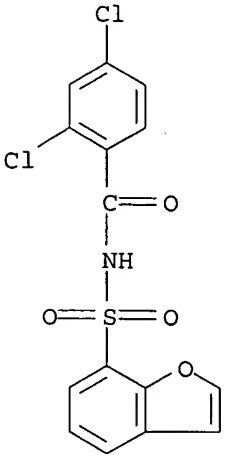
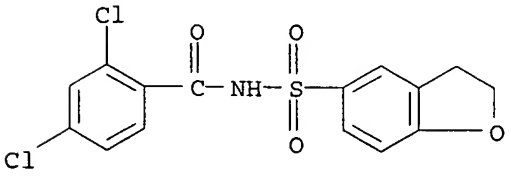
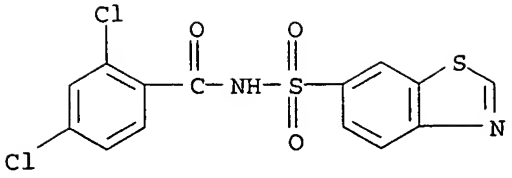


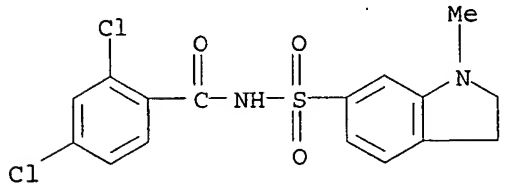
RN 848361-79-5 CAPLUS
CN Benzamide, 2,4-dichloro-N-[(2,3-dihydro-5-benzofuranyl)sulfonyl]- (9CI) (CA INDEX NAME)



IT **702693-56-9P**, N-[2,4-Dichlorobenzoyl]benzothiazole-6-sulfonamide
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation of di(chloro)-N-[(benzothiazolyl)sulfonyl]benzamide and study of its antiproliferative activity in vascular endothelial growth factor-dependent human umbilical vascular endothelial cells)
RN 702693-56-9 CAPLUS
CN Benzamide, N-(6-benzothiazolylsulfonyl)-2,4-dichloro- (9CI) (CA INDEX NAME)



IT **702693-63-8P**, N-[2,4-Dichlorobenzoyl]-1-methyl-2,3-dihydro-1H-indole-6-sulfonamide **848361-77-3P 848361-78-4P**
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation of di(chloro)-N-[(indolyl)sulfonyl]benzamide and study of its antiproliferative activity in vascular endothelial growth factor-dependent human umbilical vascular endothelial cells)
RN 702693-63-8 CAPLUS
CN Benzamide, 2,4-dichloro-N-[(2,3-dihydro-1-methyl-1H-indol-6-yl)sulfonyl]- (9CI) (CA INDEX NAME)



RN 848361-77-3 CAPLUS
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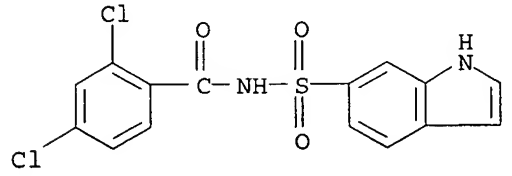

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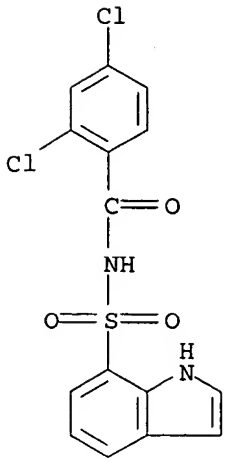

REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L34 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2004:467856 CAPLUS
DOCUMENT NUMBER: 141:38521
TITLE: Preparation of antitumor N-benzoyl sulfonamides
INVENTOR(S): Mader, Mary Margaret; Martin-Cabrejas, Luisa Maria; Richett, Michael Enrico
PATENT ASSIGNEE(S): Eli Lilly and Company, USA
SOURCE: PCT Int. Appl., 32 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
WO 2004048329	A1	20040610	WO 2003-US35041		20031113
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW					
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG					
AU 2003290592	A1	20040618	AU 2003-290592		20031113
EP 1565438	A1	20050824	EP 2003-783127		20031113
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US 2006106053	A1	20060518	US 2005-535002		20050512
PRIORITY APPLN. INFO.:			US 2002-428891P	P	20021122
			WO 2003-US35041	W	20031113

OTHER SOURCE(S): MARPAT 141:38521
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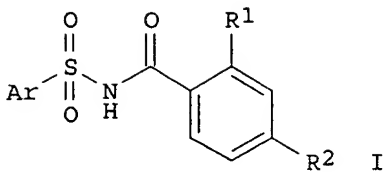
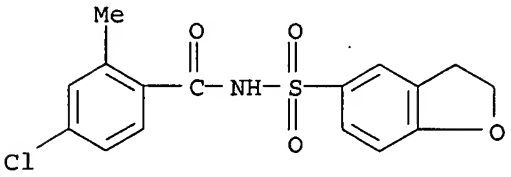


I

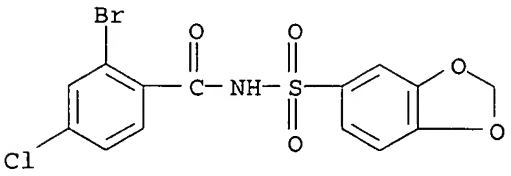
AB The title compds. [I; Ar = benzofuryl, benzodioxolyl, benzothienyl, thienopyridyl, etc.; R1 and R2 are either both halo, both CF3, or one is halo and the other is alkyl], useful as antitumor agents, were prepared Thus, reacting 2,4-dichlorobenzoic acid with naphthalene-2-sulfonamide afforded N-(2,4-dichlorobenzoyl)-naphthalene-2-sulfonamide. The exemplified compds. I showed IC50 of ≤ 1.2 μM in the assay for inhibition of HUVEC proliferation. The pharmaceutical composition comprising the compound I is claimed.

IT **702693-31-0P**, N-[4-Chloro-2-methylbenzoyl]-2,3-dihydrobenzofuran-5-sulfonamide **702693-33-2P**, N-[4-Chloro-2-bromobenzoyl]benzo[1,3]dioxole-5-sulfonamide **702693-35-4P**, N-[4-Chloro-2-methylbenzoyl]benzo[1,3]dioxole-5-sulfonamide **702693-38-7P**, N-[4-Bromo-2-methylbenzoyl]benzo[1,3]dioxole-5-sulfonamide **702693-40-1P**, N-[4-Methyl-2-bromobenzoyl]benzo[1,3]dioxole-5-sulfonamide **702693-42-3P**, N-[2,4-Dibromobenzoyl]benzo[1,3]dioxole-5-sulfonamide **702693-44-5P**, N-[4-Bromo-2-chlorobenzoyl]benzo[1,3]dioxole-5-sulfonamide **702693-46-7P**, N-[2,4-Dichlorobenzoyl]dibenzofuran-2-sulfonamide **702693-47-8P** **702693-48-9P**, N-[2,4-Dichlorobenzoyl]benzo[b]thiophene-6-sulfonamide **702693-49-0P**, N-[4-Bromo-2-methylbenzoyl]thieno[3,2-b]pyridine-2-sulfonamide **702693-50-3P**, N-[2,4-Dichlorobenzoyl]thieno[3,2-b]pyridine-2-sulfonamide **702693-51-4P**, N-[4-Bromo-2-methylbenzoyl]benzofuran-6-sulfonamide **702693-52-5P**, N-[4-Bromo-2-methylbenzoyl]benzo[b]thiophene-5-sulfonamide **702693-53-6P**, N-[2,4-Dichlorobenzoyl]benzo[b]thiophene-5-sulfonamide **702693-54-7P**, N-[2,4-Dichlorobenzoyl]benzo[b]thiophene-2-sulfonamide **702693-55-8P**, N-[2,4-Dichlorobenzoyl]benzofuran-2-sulfonamide **702693-56-9P**, N-[2,4-Dichlorobenzoyl]benzothiazole-6-sulfonamide **702693-57-0P**, N-[2-Methyl-4-chlorobenzoyl]benzothiazole-6-sulfonamide **702693-58-1P**, N-[2-Methyl-4-bromobenzoyl]benzothiazole-6-sulfonamide **702693-59-2P**, N-[2,4-Dichlorobenzoyl]-5-methylbenzo[b]thiophene-2-sulfonamide **702693-60-5P**, N-[2,4-Dichlorobenzoyl]-6-methylbenzo[b]thiophene-2-sulfonamide **702693-61-6P**, N-[2,4-Dichlorobenzoyl]-2,3-dihydrobenzo[1,4]dioxane-6-sulfonamide **702693-62-7P**, N-[2,4-Dichlorobenzoyl]benzo[1,3]dioxole-5-sulfonamide **702693-63-8P**, N-[2,4-Dichlorobenzoyl]-1-methyl-2,3-dihydro-1H-indole-6-sulfonamide **702693-64-9P**, N-[2,4-Dichlorobenzoyl]-indane-5-sulfonamide **702693-65-0P**, N-[2,4-Dichlorobenzoyl]-1-oxo-indane-5-sulfonamide **702693-66-1P**, N-[2,4-Dichlorobenzoyl]-3-oxo-indane-5-sulfonamide **702693-67-2P**, N-[2,4-Dichlorobenzoyl]-1-methyl-indole-2-sulfonamide **702693-69-4P**, N-[2,4-Dichlorobenzoyl]-benzofuran-6-sulfonamide **702693-78-5P**
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of antitumor N-benzoyl sulfonamides)

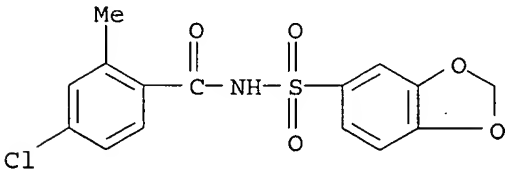
RN 702693-31-0 CAPLUS
CN Benzamide, 4-chloro-N-[(2,3-dihydro-5-benzofuranyl)sulfonyl]-2-methyl- (9CI) (CA INDEX NAME)



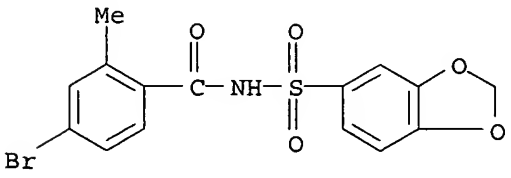
RN 702693-33-2 CAPLUS
CN Benzamide, N-(1,3-benzodioxol-5-ylsulfonyl)-2-bromo-4-chloro- (9CI) (CA INDEX NAME)



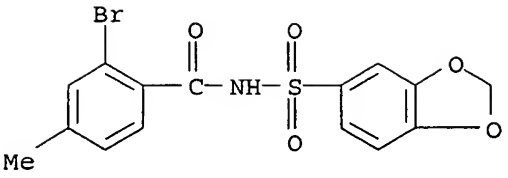
RN 702693-35-4 CAPLUS
CN Benzamide, N-(1,3-benzodioxol-5-ylsulfonyl)-4-chloro-2-methyl- (9CI) (CA INDEX NAME)



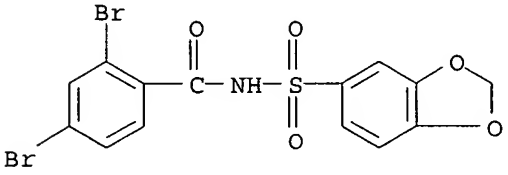
RN 702693-38-7 CAPLUS
CN Benzamide, N-(1,3-benzodioxol-5-ylsulfonyl)-4-bromo-2-methyl- (9CI) (CA INDEX NAME)



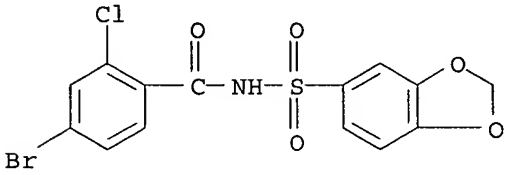
RN 702693-40-1 CAPLUS
CN Benzamide, N-(1,3-benzodioxol-5-ylsulfonyl)-2-bromo-4-methyl- (9CI) (CA INDEX NAME)



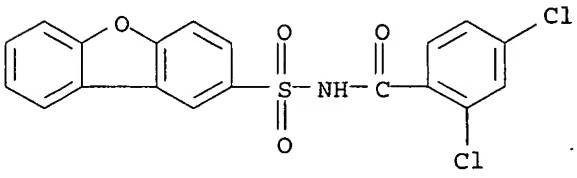
RN 702693-42-3 CAPLUS
CN Benzamide, N-(1,3-benzodioxol-5-ylsulfonyl)-2,4-dibromo- (9CI) (CA INDEX NAME)



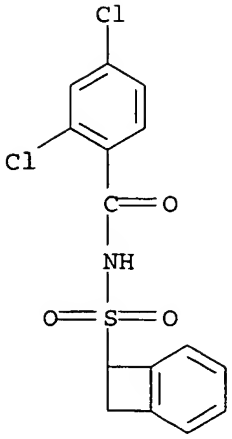
RN 702693-44-5 CAPLUS
CN Benzamide, N-(1,3-benzodioxol-5-ylsulfonyl)-4-bromo-2-chloro- (9CI) (CA INDEX NAME)



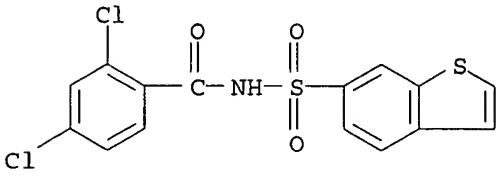
RN 702693-46-7 CAPLUS
CN Benzamide, 2,4-dichloro-N-(2-dibenzofuranylsulfonyl)- (9CI) (CA INDEX NAME)



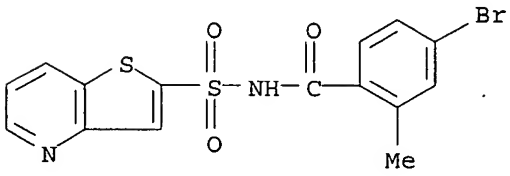
RN 702693-47-8 CAPLUS
CN Benzamide, N-(bicyclo[4.2.0]octa-1,3,5-trien-7-ylsulfonyl)-2,4-dichloro- (9CI) (CA INDEX NAME)



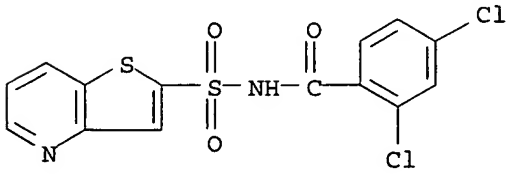
RN 702693-48-9 CAPLUS
CN Benzamide, N-(benzo[b]thien-6-ylsulfonyl)-2,4-dichloro- (9CI) (CA INDEX NAME)



RN 702693-49-0 CAPLUS
CN Benzamide, 4-bromo-2-methyl-N-(thieno[3,2-b]pyridin-2-ylsulfonyl)- (9CI) (CA INDEX NAME)

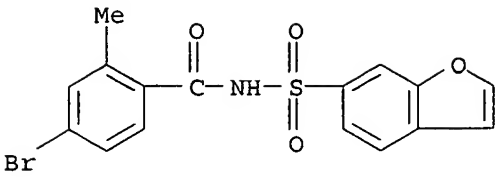


RN 702693-50-3 CAPLUS
CN Benzamide, 2,4-dichloro-N-(thieno[3,2-b]pyridin-2-ylsulfonyl)- (9CI) (CA INDEX NAME)

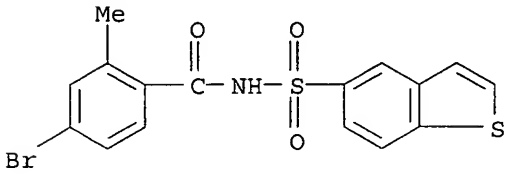


RN 702693-51-4 CAPLUS
CN Benzamide, N-(6-benzofuranylsulfonyl)-4-bromo-2-methyl- (9CI) (CA INDEX

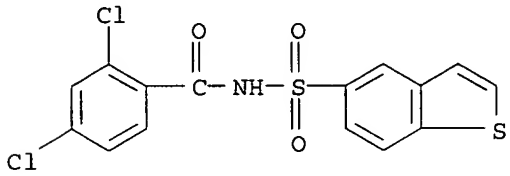
NAME)



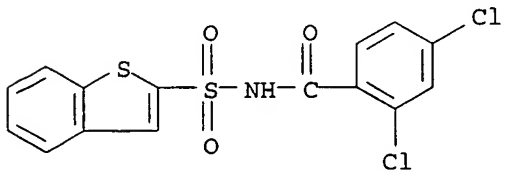
RN 702693-52-5 CAPLUS
CN Benzamide, N-(benzo[b]thien-5-ylsulfonyl)-4-bromo-2-methyl- (9CI) (CA INDEX NAME)



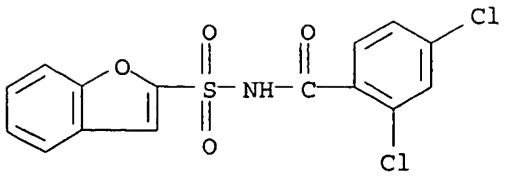
RN 702693-53-6 CAPLUS
CN Benzamide, N-(benzo[b]thien-5-ylsulfonyl)-2,4-dichloro- (9CI) (CA INDEX NAME)



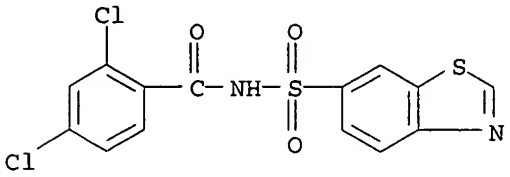
RN 702693-54-7 CAPLUS
CN Benzamide, N-(benzo[b]thien-2-ylsulfonyl)-2,4-dichloro- (9CI) (CA INDEX NAME)



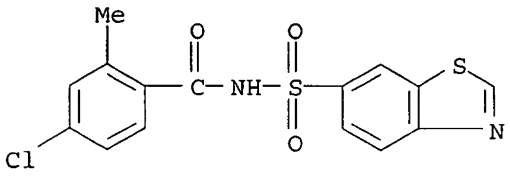
RN 702693-55-8 CAPLUS
CN Benzamide, N-(2-benzofuranylsulfonyl)-2,4-dichloro- (9CI) (CA INDEX NAME)



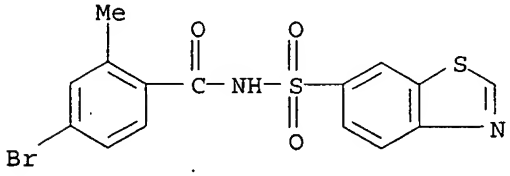
RN 702693-56-9 CAPLUS
CN Benzamide, N-(6-benzothiazolylsulfonyl)-2,4-dichloro- (9CI) (CA INDEX NAME)



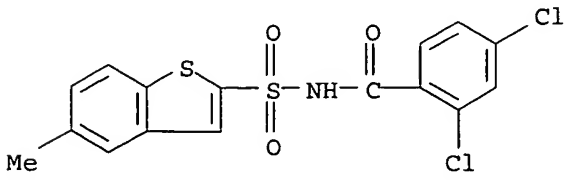
RN 702693-57-0 CAPLUS
CN Benzamide, N-(6-benzothiazolylsulfonyl)-4-chloro-2-methyl- (9CI) (CA INDEX NAME)



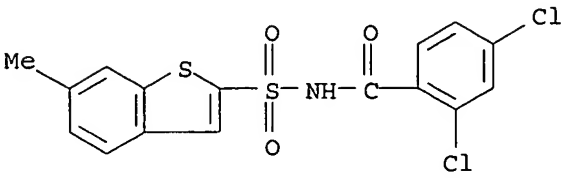
RN 702693-58-1 CAPLUS
CN Benzamide, N-(6-benzothiazolylsulfonyl)-4-bromo-2-methyl- (9CI) (CA INDEX NAME)



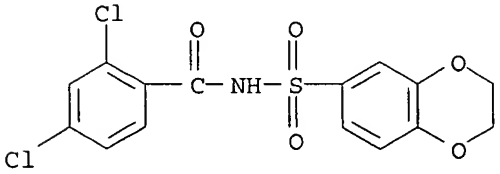
RN 702693-59-2 CAPLUS
CN Benzamide, 2,4-dichloro-N-[(5-methylbenzo[b]thien-2-yl)sulfonyl]- (9CI) (CA INDEX NAME)



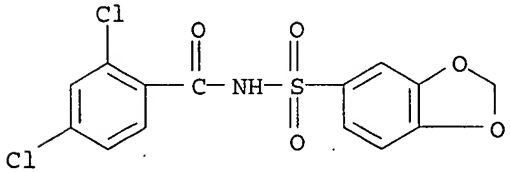
RN 702693-60-5 CAPLUS
CN Benzamide, 2,4-dichloro-N-[(6-methylbenzo[b]thien-2-yl)sulfonyl]- (9CI) (CA INDEX NAME)



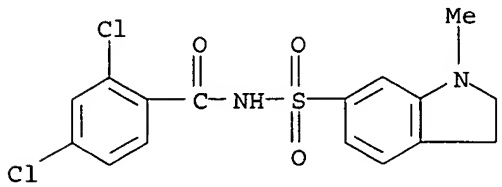
RN 702693-61-6 CAPLUS
CN Benzamide, 2,4-dichloro-N-[(2,3-dihydro-1,4-benzodioxin-6-yl)sulfonyl]- (9CI) (CA INDEX NAME)



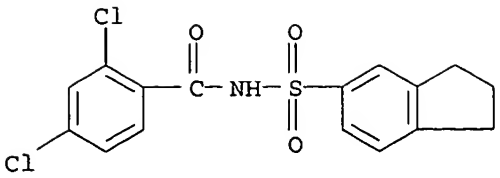
RN 702693-62-7 CAPLUS
CN Benzamide, N-(1,3-benzodioxol-5-ylsulfonyl)-2,4-dichloro- (9CI) (CA INDEX NAME)



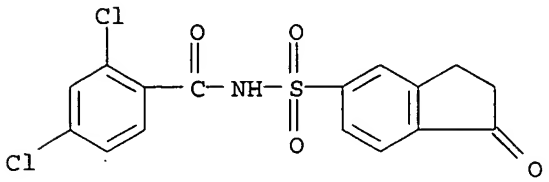
RN 702693-63-8 CAPLUS
CN Benzamide, 2,4-dichloro-N-[(2,3-dihydro-1-methyl-1H-indol-6-yl)sulfonyl]- (9CI) (CA INDEX NAME)



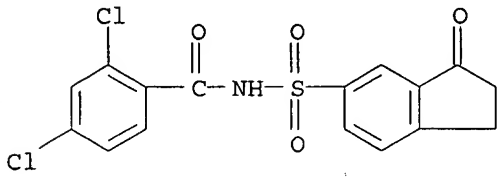
RN 702693-64-9 CAPLUS
CN Benzamide, 2,4-dichloro-N-[(2,3-dihydro-1H-inden-5-yl)sulfonyl]- (9CI) (CA INDEX NAME)



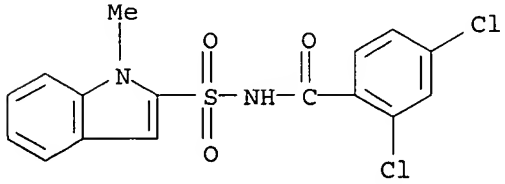
RN 702693-65-0 CAPLUS
CN Benzamide, 2,4-dichloro-N-[(2,3-dihydro-1-oxo-1H-inden-5-yl)sulfonyl]- (9CI) (CA INDEX NAME)



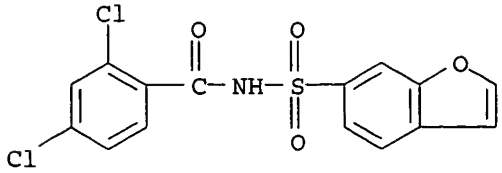
RN 702693-66-1 CAPLUS
CN Benzamide, 2,4-dichloro-N-[(2,3-dihydro-3-oxo-1H-inden-5-yl)sulfonyl]- (9CI) (CA INDEX NAME)



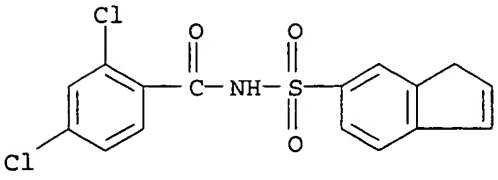
RN 702693-67-2 CAPLUS
CN Benzamide, 2,4-dichloro-N-[(1-methyl-1H-indol-2-yl)sulfonyl]- (9CI) (CA INDEX NAME)



RN 702693-69-4 CAPLUS
CN Benzamide, N-(6-benzofuranylsulfonyl)-2,4-dichloro- (9CI) (CA INDEX NAME)



RN 702693-78-5 CAPLUS
CN Benzamide, 2,4-dichloro-N-(1H-inden-6-ylsulfonyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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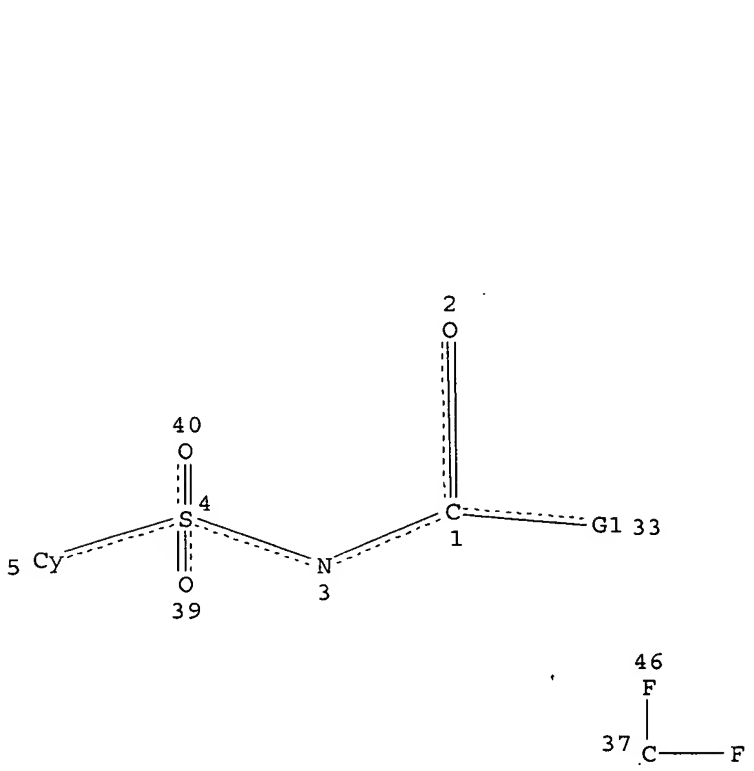

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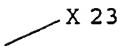
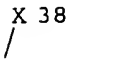
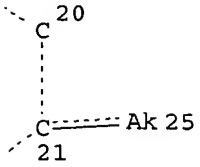
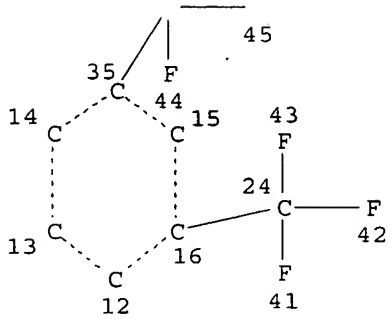
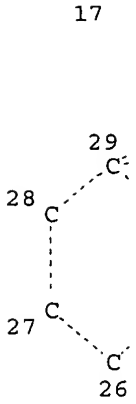




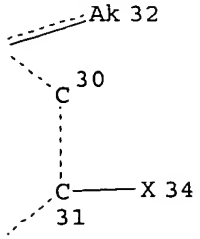


Page 1-B





Page 2-A



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RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS  46

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L14          42 SEA FILE=CAPLUS ABB=ON  PLU=ON  L13
L15          23 SEA FILE=CAPLUS ABB=ON  PLU=ON  L14 NOT (PY>2002 OR AY>2002 OR
                PRY>2002)


=> d ibib abs hitstr l15 tot
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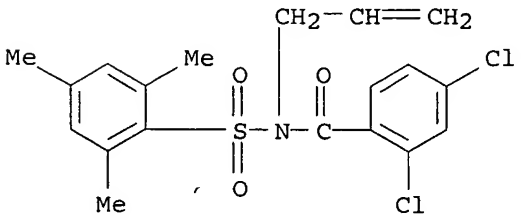
L15 ANSWER 1 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1999:138055 CAPLUS
DOCUMENT NUMBER: 130:267201
TITLE: Sodium p-toluenesulfinate/copper(II) acetate in free radical reactions of 5-aryl substituted alkenes
AUTHOR(S): Wang, Sheow-Fong; Chuang, Che-Ping; Lee, Jia-Han; Liu, Shui-Te
CORPORATE SOURCE: Department of Chemistry, National Cheng Kung University, Taichung, 70101, Peop. Rep. China
SOURCE: Tetrahedron (1999), 55(8), 2273-2288
CODEN: TETRAB; ISSN: 0040-4020
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 130:267201

AB P-Toluenesulfonyl radical can be generated from sodium p-toluenesulfinate in aqueous acetic acid or formic acid. Sulfonyl radical mediating reaction of 5-aryl-substituted alkenes with sodium p-toluenesulfinate/copper(II) acetate gave p-toluenesulfonylmethyl substituted naphthalene and isoquinoline derivs. This reaction proceeded much faster in aqueous formic acid than in aqueous acetic acid. The cyclization mode (Ar2-6 vs Ar1-5) of the 5-phenyl-1-Bu radical is strongly dependent on the geometry of the tether of the radical intermediate.

IT **221874-04-0**
RL: RCT (Reactant); RACT (Reactant or reagent)
(free radical reactions of aryl-substituted alkenes with sodium p-toluenesulfinate/copper(II) acetate)
RN 221874-04-0 CAPLUS
CN Benzamide, 2,4-dichloro-N-2-propenyl-N-[(2,4,6-trimethylphenyl)sulfonyl]-(9CI) (CA INDEX NAME)



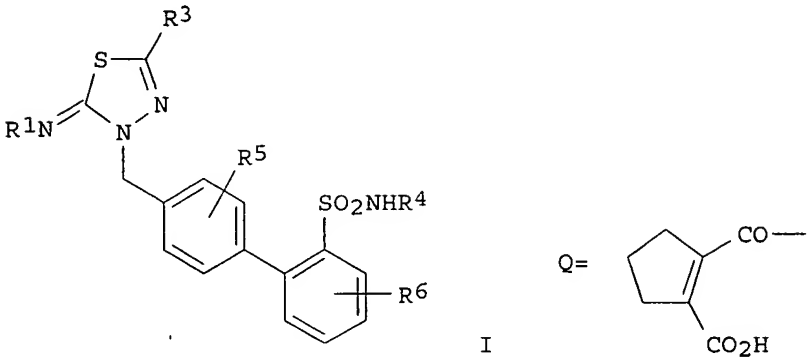
REFERENCE COUNT: 39 THERE ARE 39 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 2 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1996:666870 CAPLUS
DOCUMENT NUMBER: 125:301001
TITLE: Preparation of 3-(2'-sulfamoylbiphenyl-4-yl)methyl-2-imino-1,3,4-thiazolidine derivatives as antihypertensives
INVENTOR(S): Sakae, Shinya; Yokomoto, Masaharu; Inoe, Satoshi; Nishimura, Koji; Hirata, Akikage; Iguma, Kenichi; Tamura, Koichi
PATENT ASSIGNEE(S): Wakunaga Seiyaku Kk, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 31 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent

LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
JP 08208632	A2	19960813	JP 1995-280093		19951027
PRIORITY APPLN. INFO.:			JP 1995-280093	A	19951027
			JP 1994-264755		19941028

OTHER SOURCE(S): MARPAT 125:301001
GI

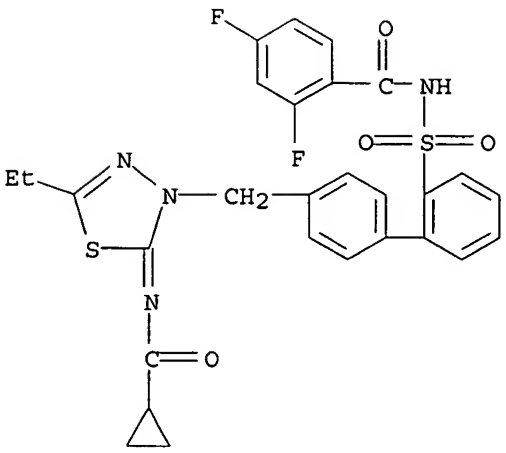


I

AB The title compds. [I; R1 = H, COR2; wherein R2 = (un)substituted lower alkyl, cycloalkyl, or cycloalkenyl, (un)substituted aryl-lower alkyl or aryl-lower alkenyl, Ph, or aromatic heterocyclyl, lower alkoxy or aralkyloxy; R3 = halo, lower alkyl or cycloalkyl, (un)substituted Ph, lower alkyl alkoxy; R4 = H, lower alkyl, acyl; R5, R6 = H, halo, lower alkyl], which show potent angiotensin II-antagonizing, smooth muscle-relaxing, and antihypertensive activity, are prepared Thus, 533 mg 5-ethyl-2-trifluoroacetamido-1,3,4-thiadiazole and 1.00 g 4-bromomethyl-2'-(N-tert-butylsulfamoylbiphenyl-4-yl)biphenyl were added to DMF and stirred at room temperature for 4 h to give 606 mg I (R1 = CF3CO, R3 = Et, R5 = R6 = H, R4 = tert-butyl). I (R1 = Q, R3 = Et, R4 = CO2Et, R5 = R6 = H) and I (R1 = 2-ClC6H4CO, R3 = Et, R4 = COC6H4CO2Me-2, R5 = R6 = H) in vitro showed IC50 of 3.0 and 5.3 nM, resp., for inhibiting angiotensin II and in vivo inhibited angiotensin II-induced hypertension of rats by 53.4 and 62.3%, resp., at 0.1 mg/kg i.v.

IT **183000-07-9P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of [(sulfamoylbiphenylyl)methyl]iminothiazolidine derivs. as antihypertensives, angiotensin II antagonists, and smooth muscle relaxants)

RN 183000-07-9 CAPLUS
CN Benzamide, N-[[4'-[[2-[(cyclopropylcarbonyl)imino]-5-ethyl-1,3,4-thiadiazol-3(2H)-yl]methyl][1,1'-biphenyl]-2-yl]sulfonyl]-2,4-difluoro-(9CI) (CA INDEX NAME)



L15 ANSWER 3 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1994:204413 CAPLUS
DOCUMENT NUMBER: 120:204413
TITLE: Processing of silver halide photographic material containing azole ring-containing yellow couplers
INVENTOR(S): Fujita, Yoshihiro; Obayashi, Keiji
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 130 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 04321046	A2	19921111	JP 1991-42319	19910215

PRIORITY APPLN. INFO.: JP 1991-42319 19910215
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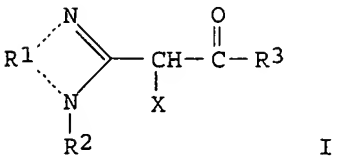


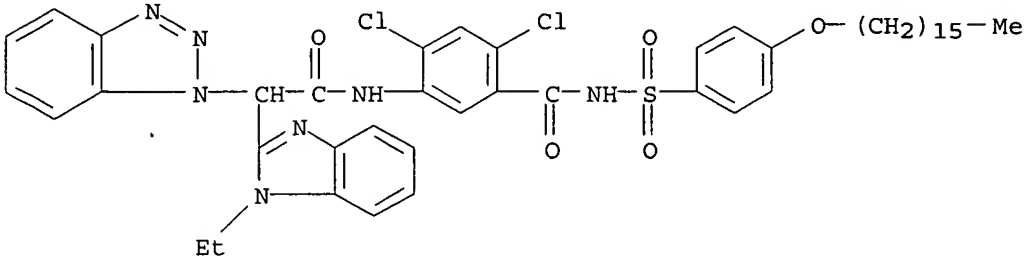
I

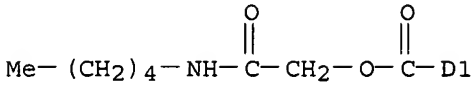
AB In the title processing of a photog. material following desilvering treatment by a 90 s total time water-rinsing and(or) stabilization treatment, the above photog. material contains ≥1 layer(s) containing yellow coupler I [R1 = non-metal atom required to form 5-membered heterocycle; R2 = H, alkyl, alkenyl, alkynyl, aromatic or heterocyclic ring; R3 = alkyl, alkenyl, alkynyl, aromatic group, alkoxy, aryloxy, heterocyclooxy NR4R5 (R4, R5 = R2); X = group releasable on reacting with oxidized developer; ≥1 of R1, R2, R3, X is a dissociation-accelerator when R1 forms a benzimidazole ring]. The invention can produce yellow images with superior fastness even when kept under high-temperature and high-humidity

conditions.

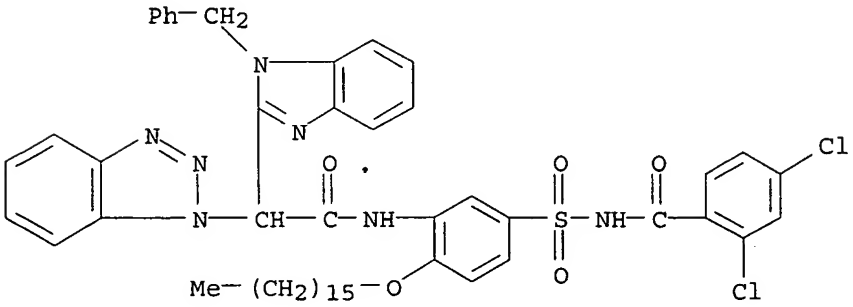
IT **148661-83-0 150856-35-2**
RL: USES (Uses)
(yellow photog. coupler)

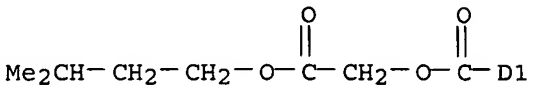
RN 148661-83-0 CAPLUS
CN 1H-Benzotriazolecarboxylic acid, 1-[2-[[2,4-dichloro-5-[[[[4-(hexadecyloxy)phenyl]sulfonyl]amino]carbonyl]phenyl]amino]-1-(1-ethyl-1H-benzimidazol-2-yl)-2-oxoethyl]-, 2-oxo-2-(pentylamino)ethyl ester (9CI) (CA INDEX NAME)





RN 150856-35-2 CAPLUS
CN 1H-Benzotriazolecarboxylic acid, 1-[2-[[5-[[(2,4-dichlorobenzoyl)amino]sulfonyl]-2-(hexadecyloxy)phenyl]amino]-2-oxo-1-[1-(phenylmethyl)-1H-benzimidazol-2-yl]ethyl]-, 2-(3-methylbutoxy)-2-oxoethyl ester (9CI) (CA INDEX NAME)



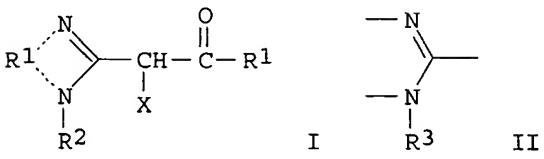


L15 ANSWER 4 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1993:505749 CAPLUS
DOCUMENT NUMBER: 119:105749
TITLE: Silver halide color photographic material having

improved graininess and light fastness
INVENTOR(S): Obayashi, Keiji
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 158 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

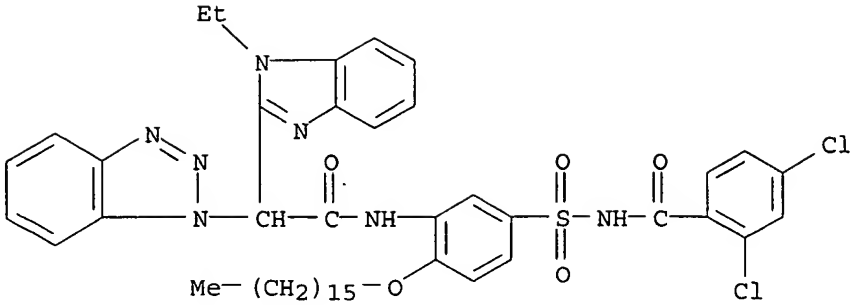
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 04235550	A2	19920824	JP 1991-12686	19910111

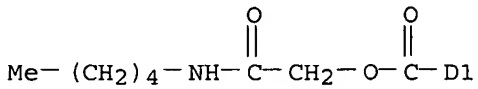
PRIORITY APPLN. INFO.: JP 1991-12686 19910111
GI



AB A Ag halide color photog. material having ≥1 photosensitive emulsion layer on a support comprises a coupler or a yellow-colored cyan coupler I [R1 = nonmetallic atomic group forming a 5-membered unsatd. heterocyclyl with II; R2 = H, alkyl, alkenyl, alkynyl, aromatic, heterocyclyl; R3 = alkyl, alkenyl, alkynyl, aromatic, alkoxy, aryloxy, heterocyclic oxy, NR4R5; R4,5 = H, alkyl, alkenyl, arom or heterocyclic alkynyl; X = moiety being released in reaction with aromatic primary amine developing agent].

IT **146472-58-4**
RL: USES (Uses)
(silver halide color photog. material containing)
RN 146472-58-4 CAPLUS
CN 1H-Benzotriazolecarboxylic acid, 1-[2-[[5-[[(2,4-dichlorobenzoyl)amino]sulfonyl]-2-(hexadecyloxy)phenyl]amino]-1-(1-ethyl-1H-benzimidazol-2-yl)-2-oxoethyl]-, 2-oxo-2-(pentylamino)ethyl ester (9CI) (CA INDEX NAME)

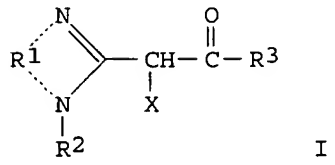




L15 ANSWER 5 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1993:459566 CAPLUS
DOCUMENT NUMBER: 119:59566
TITLE: Rapid processing of silver halide photographic material
INVENTOR(S): Fujita, Yoshihiro; Obayashi, Keiji
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 148 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 04284448	A2	19921009	JP 1991-72115	19910313
PRIORITY APPLN. INFO.:			JP 1991-72115	19910313

GI



I

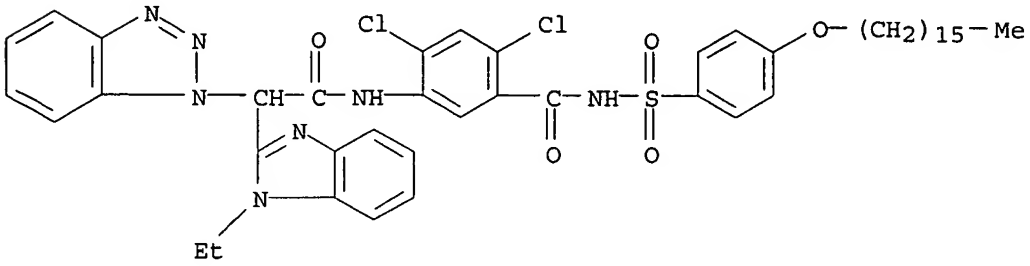
AB In processing a Ag halide color photog. material by color developing and bleaching, the photog. material contains I [R1 = atoms required to complete an unsatd. 5-membered heterocycle; R2 = H, alkyl, alkenyl, alkynyl, aromatic or heterocyclic group; R3 = alkyl, alkenyl, aromatic, alkoxy, acyloxy, heterocyclooxy, amino; X = group releasable on reacting with oxidized primary aromatic amine developer], and the bleaching solution contains an oxidizing agent of oxidation particle ≥150 mV. The total time required for the processing is ≤8 min and the photog. material may be pretreated with a buffer solution (pH ≥8.0) prior to development.

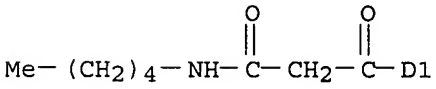
Rapid processing can be achieved without adversely affecting picture quality.

IT **148780-04-5**
RL: TEM (Technical or engineered material use); USES (Uses)
(photog. coupler)

RN 148780-04-5 CAPLUS

CN 1H-Benzotriazolepropanamide, 1-[2-[[2,4-dichloro-5-[[[[4-(hexadecyloxy)phenyl]sulfonyl]amino]carbonyl]phenyl]amino]-1-(1-ethyl-1H-benzimidazol-2-yl)-2-oxoethyl]-β-oxo-N-pentyl- (9CI) (CA INDEX NAME)



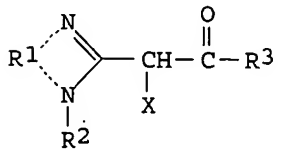


L15 ANSWER 6 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1993:459563 CAPLUS
DOCUMENT NUMBER: 119:59563
TITLE: Method for processing color photographic material
INVENTOR(S): Fujita, Yoshihiro; Obayashi, Keiji
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 81 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 04277741	A2	19921002	JP 1991-63680	19910306

PRIORITY APPLN. INFO.: JP 1991-63680 19910306
OTHER SOURCE(S): MARPAT 119:59563
GI



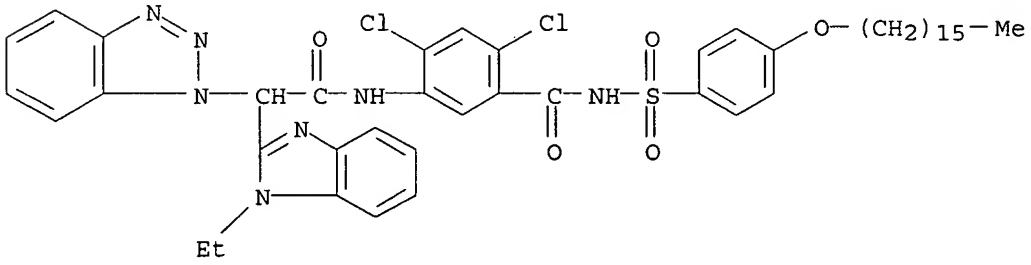
I

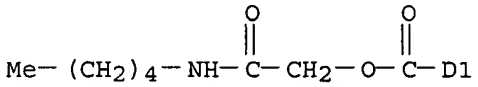
AB In the title processing method involving color developing an exposed color Ag halide photog. material with an aromatic amine developer, and processing with a bleaching solution, the bleaching solution used has a K+ concentration ≥0.13 g/L, and the above photog. material contains a coupler I [R1 = nonmetallic atoms required to complete a 5-membered unsatd. heterocyclic ring; R2, R4,5 = H, alkyl, alkenyl, alkynyl, aromatic or heterocyclic group; R3 = alkyl, alkenyl, alkynyl, aromatic group, alkoxy, aryloxy, heterocyclyloxy, NR4R5; X = group releasable on reaction with oxidized aromatic amine developer]. Color reproducibility is improved even with low replenishment of the developer.

IT **148661-83-0**
RL: USES (Uses)
(yellow photog. coupler, for improved color reproducibility)

RN 148661-83-0 CAPLUS

CN 1H-Benzotriazolecarboxylic acid, 1-[2-[[2,4-dichloro-5-[[[[4-(hexadecyloxy)phenyl]sulfonyl]amino]carbonyl]phenyl]amino]-1-(1-ethyl-1H-benzimidazol-2-yl)-2-oxoethyl]-, 2-oxo-2-(pentylamino)ethyl ester (9CI) (CA INDEX NAME)





L15 ANSWER 7 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1993:417801 CAPLUS
DOCUMENT NUMBER: 119:17801
TITLE: Color photographic material with high photosensitivity and image density
INVENTOR(S): Obayashi, Keiji
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 88 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 04184433	A2	19920701	JP 1990-314522	19901120

PRIORITY APPLN. INFO.: JP 1990-314522 19901120

GI For diagram(s), see printed CA Issue.

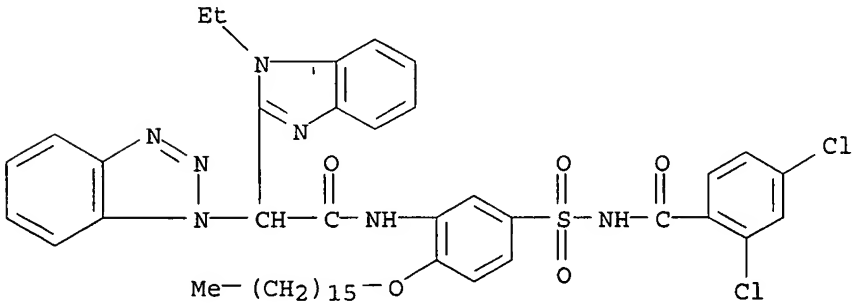
AB The title photog. material contains a coupler I [R1 = nonmetallic atoms required to complete a 5-membered unsatd. heterocyclyl; R2 = H, alkyl,

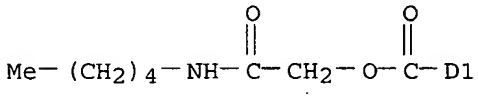
alkenyl, alkynyl, aromatic group, heterocyclyl; R3 = alkyl, alkenyl, alkynyl, aromatic group, alkoxy, aryloxy, heterocyclyloxy, NR4R5; R4-5 = H, alkyl, alkenyl, alkynyl, aromatic group, heterocyclyl; X = group releasable on reaction with oxidized developer], and an acylacetoanilide type coupler containing a group II [R1 = monovalent group; Q = nonmetallic atoms required to complete a 3- to 5-membered ring].

IT **146472-58-4**
RL: USES (Uses)
(yellow coupler, photog. material containing)

RN 146472-58-4 CAPLUS

CN 1H-Benzotriazolecarboxylic acid, 1-[2-[[5-[[(2,4-dichlorobenzoyl)amino]sulfonyl]-2-(hexadecyloxy)phenyl]amino]-1-(1-ethyl-1H-benzimidazol-2-yl)-2-oxoethyl]-, 2-oxo-2-(pentylamino)ethyl ester (9CI) (CA INDEX NAME)



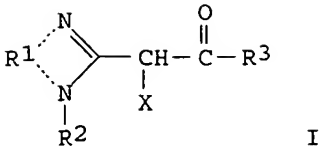


L15 ANSWER 8 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1993:136082 CAPLUS
DOCUMENT NUMBER: 118:136082
TITLE: Silver halide color photographic material containing novel yellow coupler
INVENTOR(S): Obayashi, Keiji
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 90 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 04172446	A2	19920619	JP 1990-300304	19901106

PRIORITY APPLN. INFO.: JP 1990-300304 19901106
GI



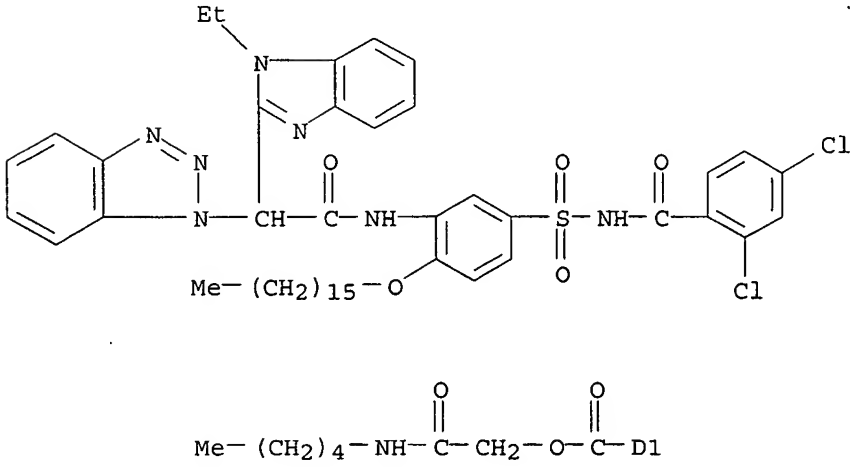
I

AB A Ag halide color photog. material comprises a yellow coupler I [R1 = non-metallic atomic group forming 5-membered unsatd. heterocyclyl with N:C-NR2; R2 = H, alkyl, alkenyl, alkynyl, aromatic, heterocyclyl; R3 = alkyl, alkenyl, alkynyl, aromatic, alkoxy, aryloxy, heterocyclyloxy, NR4R5; R4,5 = H, alkyl, alkenyl, alkynyl, aromatic, heterocyclyl; X = moiety released upon reaction with oxidation product of aromatic primary amine developing agent] and a compound or its precursor capable of scavenging an oxidation product of a development agent.

IT **146472-58-4**
RL: USES (Uses)
(yellow coupler from, silver halide color photog. material containing)

RN 146472-58-4 CAPLUS

CN 1H-Benzotriazolecarboxylic acid, 1-[2-[[5-[[(2,4-dichlorobenzoyl)amino]sulfonyl]-2-(hexadecyloxy)phenyl]amino]-1-(1-ethyl-1H-benzimidazol-2-yl)-2-oxoethyl]-, 2-oxo-2-(pentylamino)ethyl ester (9CI) (CA INDEX NAME)



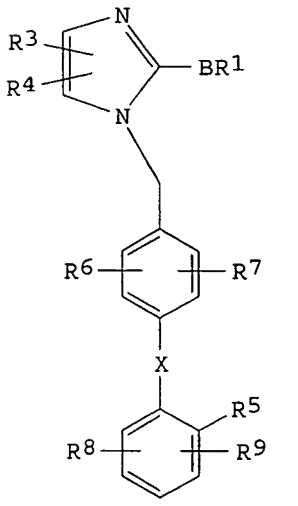
L15 ANSWER 9 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:	1992:469862 CAPLUS
DOCUMENT NUMBER:	117:69862
TITLE:	Preparation of imidazole angiotensin II antagonists incorporating acidic functional groups
INVENTOR(S):	Chakravarty, Prasun K.; Patchett, Arthur A.; Greenlee, William J.; Walsh, Thomas F.; Naylor, Elizabeth M.
PATENT ASSIGNEE(S):	Merck and Co., Inc., USA
SOURCE:	Eur. Pat. Appl., 39 pp. CODEN: EPXXDW
DOCUMENT TYPE:	Patent
LANGUAGE:	English

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 479479	A1	19920408	EP 1991-308718	19910925
R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, LU, NL, SE				
US 5126342	A	19920630	US 1990-590971	19901001
CA 2052517	AA	19920402	CA 1991-2052517	19910930
JP 04305567	A2	19921028	JP 1991-253667	19911001
JP 07064825	B4	19950712		

PRIORITY APPLN. INFO.: US 1990-590971 A 19901001
OTHER SOURCE(S): MARPAT 117:69862
GI



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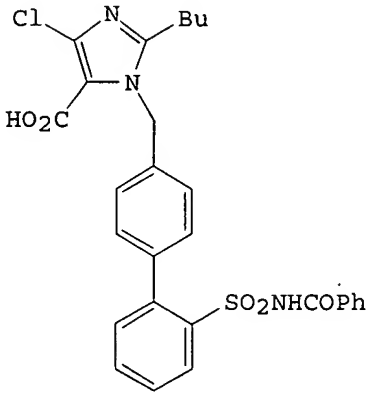


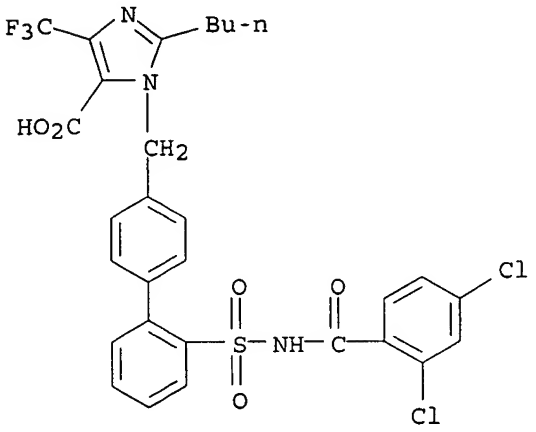
II

AB Title compds. [I; R1 = (substituted) alkyl, alkenyl, alkynyl, Ph, naphthyl, heteroaryl, perfluoroalkyl; B = bond, O, S(O)x(CH2)s; x = 0-2; s = 0-5; R3 = H, alkyl, alkenyl, alkynyl, halo, NO2, CF3, perfluoroalkyl C6F5, cyano, (substituted) Ph, phenylalkyl; R4 = H, cyano, (perfluoro)alkyl, (perfluoro)alkenyl, CO2H, Ph, phenylalkenyl, tetrazolyl, etc; R5 = (substituted) heteroarylaminosulfonyl(methyl), arylaminosulfonyl(methyl), sulfonylaminocarbonylamino, etc.; R6 = H, Halo, alkyl, alkoxy, alkoxyalkyl; R7 = H, halo, NO2, alkyl, acyloxy, cycloalkyl, alkoxy, sufonylamino hydroyalkyl, arylalkyl, alkylthio, etc.; R8, R9 = H, halo NO2, amino, aminosulfonyl, CF3, alkyl, alkoxy, alkenyl, alkynyl; adjacent R8R9 = aryl; X = null, CH2, CO, O, S(O)x, OCH2, CH:CF, CF2CF2, CH2CH2, CF:CF, imino, etc.], were prepared Thus, Me 2-butyl-4-chloro-1H-imidazole-5-carboxylate was heated at 100° with K2CO3 in DMF for 30 min; the mixture was cooled, 4'-bromomethylbiphenyl-2-tert-butylsufonamide (preparation given) was added, and the mixture was stirred 12 h at room temperature to give a mixture of coupling products. The 1-biphenylmethyl-4-chloroimidazole-5-carboxylate isomer was N-deprotected with CF3CO2H followed by N-acylation with PhCOCl and saponification with 2N aqueous NaOH/MeOH to give title

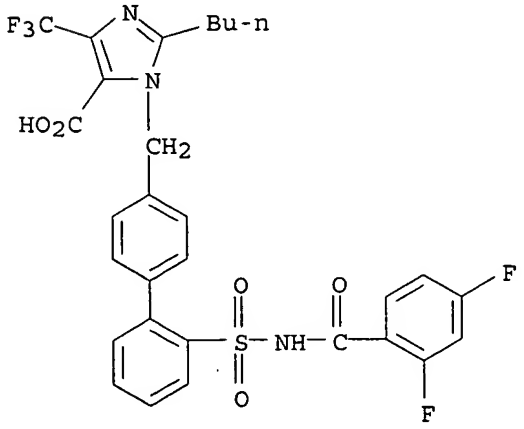
compound II. I antagonized angiotensin II in bovine adrenal cortex prepns. with IC50 of ≤50 μm. Dosage forms were prepared containing II.

IT **142096-48-8P 142096-51-3P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of, as angiotensin II antagonist)

RN 142096-48-8 CAPLUS
CN 1H-Imidazole-5-carboxylic acid, 2-butyl-1-[[2'-[[(2,4-dichlorobenzoyl)amino]sulfonyl][1,1'-biphenyl]-4-yl]methyl]-4-(trifluoromethyl)- (9CI) (CA INDEX NAME)



RN 142096-51-3 CAPLUS
CN 1H-Imidazole-5-carboxylic acid, 2-butyl-1-[[2'-[[(2,4-difluorobenzoyl)amino]sulfonyl][1,1'-biphenyl]-4-yl]methyl]-4-(trifluoromethyl)- (9CI) (CA INDEX NAME)

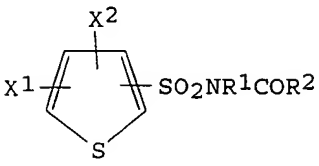


L15 ANSWER 10 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1992:209745 CAPLUS
DOCUMENT NUMBER: 116:209745
TITLE: Preparation of thienylsulfonamides as herbicides and microbicides.

INVENTOR(S): Ishizaki, Masahiko; Osada, Seiji; Kobutani, Tadashi
PATENT ASSIGNEE(S): Tokuyama Soda Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 14 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 04013678	A2	19920117	JP 1990-115177	19900502
JP 2947365	B2	19990913		
PRIORITY APPLN. INFO.:			JP 1990-115177	19900502

OTHER SOURCE(S): MARPAT 116:209745
GI

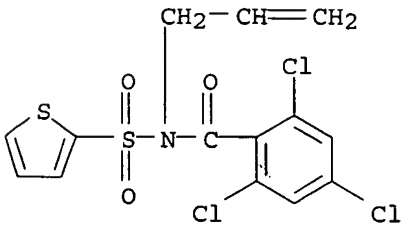


I

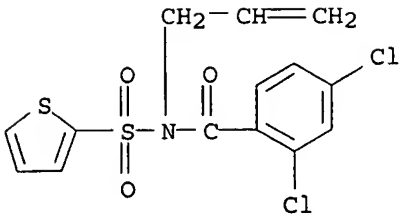
AB N,N-disubstituted thienylsulfonamides I [X1, X2 = H, halo, (substituted) lower alkyl, (substituted) Ph; R1 = (substituted) lower alkyl, alkenyl, alkynyl, (substituted) Ph; R2 = (substituted) lower alkyl, (substituted) Ph] are herbicides, bactericides, and fungicides. NaH was added gradually to a mixture of N-allyl-2-thienylsulfonamide and dimethoxyethane, stirred at room temperature for 1 h, and treated with 2-methoxybenzoyl chloride at room temperature for 10 h to give 79.5% N-(2'-methoxybenzoyl)-N-allyl-2-thienylsulfonamide (II). II, at 200 g/are, totally controlled Echinochloa crus-galli, Cyperus difformis, Scirpus juncoides, Monochoria vaginalis, and broad-leaf weeds with no damage on rice.

IT **140937-85-5P 140937-88-8P 140937-93-5P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as herbicide and bactericide and fungicide)

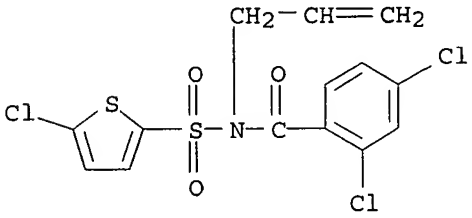
RN 140937-85-5 CAPLUS
CN Benzamide, 2,4,6-trichloro-N-2-propenyl-N-(2-thienylsulfonyl)- (9CI) (CA INDEX NAME)



RN 140937-88-8 CAPLUS
CN Benzamide, 2,4-dichloro-N-2-propenyl-N-(2-thienylsulfonyl)- (9CI) (CA INDEX NAME)



RN 140937-93-5 CAPLUS
CN Benzamide, 2,4-dichloro-N-[(5-chloro-2-thienyl)sulfonyl]-N-2-propenyl- (9CI) (CA INDEX NAME)

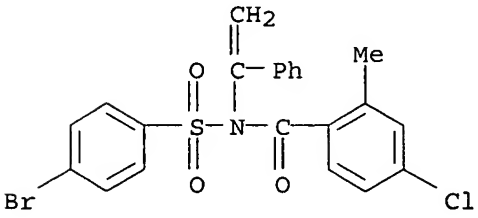


L15 ANSWER 11 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1989:477653 CAPLUS
DOCUMENT NUMBER: 111:77653
TITLE: Preparation of sulfonamide derivatives as bactericides and fungicides
INVENTOR(S): Kato, Shozo; Igami, Satoyoshi
PATENT ASSIGNEE(S): Tokuyama Soda Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 20 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 64003162	A2	19890106	JP 1987-157610	19870626

PRIORITY APPLN. INFO.: JP 1987-157610 19870626
OTHER SOURCE(S): MARPAT 111:77653
GI For diagram(s), see printed CA Issue.
AB Sulfonamides (I; R = aryl, heteroaryl; R1, R2 = H, alkyl; R3 = alkyl, aryl, heteroaryl, alkoxy, aryloxy; R4 = alkyl, aryl, heteroaryl), useful as bactericides and fungicides, are prepared Na2CO3 was added to a solution of Me2C:CPhNHSO2CF3, followed by ClCO2Me, and the mixture stirred overnight at room temperature to give 31.8% I (R = Ph, R1 = R2 = Me, R3 = MeO, R4 = CF3), which inhibited the growth of Batillus subtilis, Aspergillus niger, and Trichophyton rubrum at 15% in MeOH.
IT **121905-79-1P**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of, as bactericide and fungicide)

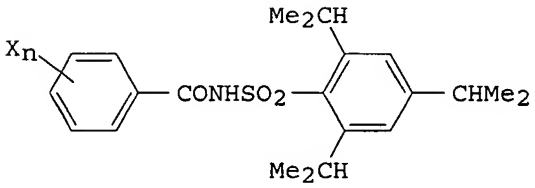
RN 121905-79-1 CAPLUS
CN Benzamide, N-[(4-bromophenyl)sulfonyl]-4-chloro-2-methyl-N-(1-phenylethenyl)- (9CI) (CA INDEX NAME)



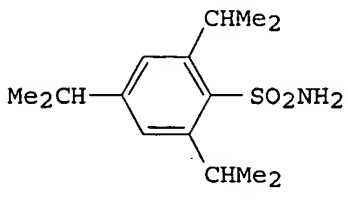
L15 ANSWER 12 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1989:477651 CAPLUS
DOCUMENT NUMBER: 111:77651
TITLE: Preparation of benzamide derivatives as soil pesticides
INVENTOR(S): Ochiai, Yoshinori; Hanaue, Masami; Yamazaki, Mitsumasa; Kawada, Hiroshi; Yamaguchi, Masashi
PATENT ASSIGNEE(S): Nissan Chemical Industries, Ltd., Japan; Hodogaya Chemical Co., Ltd.
SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 63267754	A2	19881104	JP 1987-102047	19870427
PRIORITY APPLN. INFO.:			JP 1987-102047	19870427

OTHER SOURCE(S): MARPAT 111:77651
GI



I



II

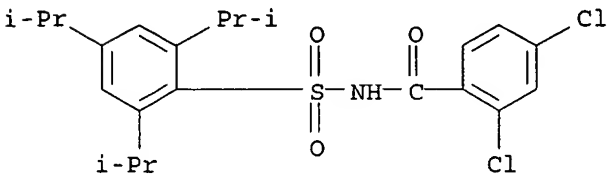
AB Benzamide derivs. (I; X = halo; n = 1, 2), effective soil pesticides, are

prepared 2,4-Cl2C6H3COCl was added to a solution of II and K2CO2 in Me2CO and refluxed 8 h to give 69.5% I (Xn = 2,4-Cl2) which showed 100% control of Plasmodiophora brassicae at 0.2 kg/ha with no harmful effects on the cabbage.

IT **121914-32-7P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as soil pesticide)

RN 121914-32-7 CAPLUS

CN Benzamide, 2,4-dichloro-N-[[2,4,6-tris(1-methylethyl)phenyl]sulfonyl]- (9CI) (CA INDEX NAME)



L15 ANSWER 13 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1988:94580 CAPLUS

DOCUMENT NUMBER: 108:94580

TITLE: Preparation of acylated azinyl(sulfonyl)guanidines as herbicides

INVENTOR(S): Kirsten, Rolf; Kluth, Joachim; Mueller, Klaus Helmut; Pfister, Theodor; Riebel, Hans Jochem; Santel, Hans Joachim; Schmidt, Robert R.

PATENT ASSIGNEE(S): Bayer A.-G. , Fed. Rep. Ger.

SOURCE: Ger. Offen., 35 pp.
CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

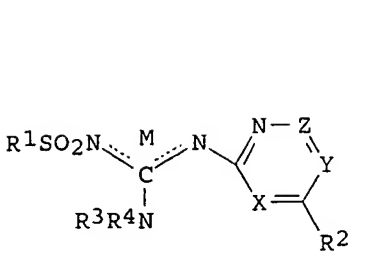
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3602679	A1	19870806	DE 1986-3602679	19860130
EP 234250	A2	19870902	EP 1987-100640	19870119
R: AT, BE, CH, DE, FR, GB, IT, LI, NL				
US 4802910	A	19890207	US 1987-5539	19870120
JP 62190170	A2	19870820	JP 1987-16311	19870128
DK 8700473	A	19870731	DK 1987-473	19870129
ZA 8700641	A	19870930	ZA 1987-641	19870129
BR 8700444	A	19871208	BR 1987-444	19870130

PRIORITY APPLN. INFO.: DE 1986-3602679 A 19860130

GI



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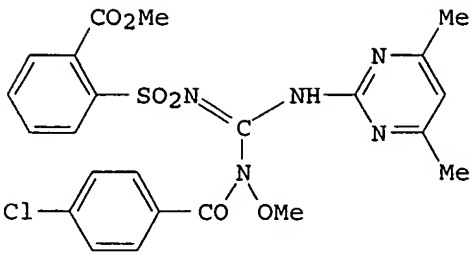


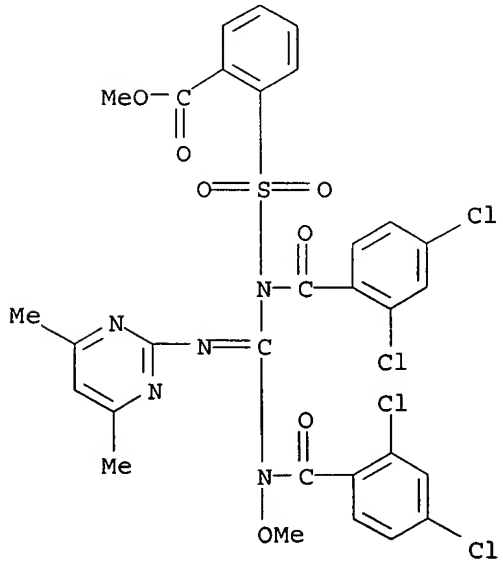
II

AB The title compds. [I; R1 = (un)substituted alkyl, aralkyl, aryl; R2 = H, (halo)alkyl, (halo)alkoxy, (halo)alkylthio, OH, halo, NH2, (di)alkylamino; R3 = (un)substituted acyl, H2NCO; R4 = H, alkoxy, (un)substituted alkyl, alkenyl, alkynyl, cycloalkyl, aralkyl, aryl, amino, etc.; M = H, a metal, (un)substituted acyl, H2NCO; X = N, CH; Y, Z = N, (un)substituted CH; dotted line indicates alternative positions of guanidine double bond] and their salts with strong acids were prepared as herbicides (no data). N-(4,6-Dimethyl-2-pyrimidinyl)-N'-methoxy-N''-[[2-(methoxycarbonyl)phenyl]sulfonyl]guanidine, 4-ClC6H4COCl, and 1,4-diazabicyclo[2.2.2]octane were stirred for 8 h at 20° in CH2Cl2 to give 40% sulfonylguanidine II.

IT **111656-16-7P**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of, as herbicide)

RN 111656-16-7 CAPLUS

CN Benzoic acid, 2-[[(2,4-dichlorobenzoyl)[[(2,4-dichlorobenzoyl)methoxyamino][(4,6-dimethyl-2-pyrimidinyl)imino]methyl]amino]sulfonyl]-, methyl ester (9CI) (CA INDEX NAME)



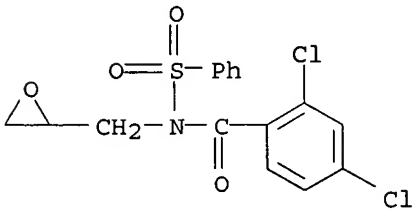
L15 ANSWER 14 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1986:83661 CAPLUS
DOCUMENT NUMBER: 104:83661
TITLE: Phytotoxic activity of benzenesulfonamide derivatives. Part IV. Herbicidal activity of N-(2,3-epoxypropyl)benzenesulfonamide derivatives
AUTHOR(S): Yoneyama, Koichi; Ichizen, Nobumasa; Konnai, Makoto; Takematsu, Tetsuo; Ushinohama, Kazuyuki; Jikihara, Tetsuo
CORPORATE SOURCE: Fac. Agric., Utsunomiya Univ., Utsunomiya, 321, Japan
SOURCE: Agricultural and Biological Chemistry (1985), 49(11), 3265-9
CODEN: ABCHA6; ISSN: 0002-1369
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 104:83661

AB N-Acyl- and N-sulfonyl-N-(2,3-epoxypropyl)benzenesulfonamide derivs. were synthesized and their herbicidal activities were tested against barnyardgrass (Echinochloa crus-galli) and rice plants using pot and Petri dish tests to examine the structural requirements for herbicidal activity in N-(2,3-epoxypropyl)benzenesulfonamide derivs. The N-sulfonylbenzenesulfonamide derivs. exhibited higher activity against barnyardgrass than the N-acylbenzenesulfonamide derivs. Some of the N-sulfonylbenzenesulfonamide derivs. showed high selectivity towards barnyardgrass and rice plants during germination.

IT **100325-92-6P**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation and herbicidal activity of)

RN 100325-92-6 CAPLUS
CN Benzamide, 2,4-dichloro-N-(oxiranylmethyl)-N-(phenylsulfonyl)- (9CI) (CA INDEX NAME)



L15 ANSWER 15 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1985:596117 CAPLUS
DOCUMENT NUMBER: 103:196117
TITLE: Substituted 1,2,4-triazolo[1,5-a]pyrimidine-2-sulfonamides and compositions and methods of controlling undesired vegetation and suppressing the nitrification of ammonium nitrogen in soil
INVENTOR(S): Kleschick, William A.; Ehr, Robert J.; Gerwick, Ben Clifford, III; Monte, William T.; Pearson, Norman R.; Costales, Mark J.; Meikle, Richard W.
PATENT ASSIGNEE(S): Dow Chemical Co., USA
SOURCE: Eur. Pat. Appl., 277 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent

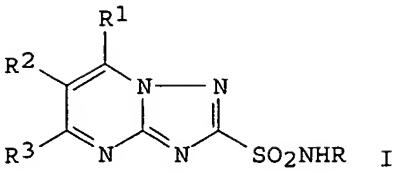
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 142152	A2	19850522	EP 1984-113656	19841112
EP 142152	A3	19861001		
R: AT, BE, CH, DE, FR, IT, LI, NL, SE				
AU 8435330	A1	19850523	AU 1984-35330	19841112
AU 583799	B2	19890511		
EP 330137	A1	19890830	EP 1989-102979	19841112
EP 330137	B1	19940302		
R: AT, BE, CH, DE, FR, IT, LI, NL, SE				
AT 61803	E	19910415	AT 1984-113656	19841112
IL 83139	A1	19930114	IL 1984-83139	19841112
IL 73486	A1	19930513	IL 1984-73486	19841112
AT 102181	E	19940315	AT 1989-102979	19841112
BR 8405797	A	19850917	BR 1984-5797	19841113
ZA 8408844	A	19860730	ZA 1984-8844	19841113
CA 1231708	A1	19880119	CA 1984-467616	19841113
DK 8405413	A	19850515	DK 1984-5413	19841114
DK 170442	B1	19950904		
GB 2149792	A1	19850619	GB 1984-28740	19841114
GB 2149792	B2	19880518		
JP 60116684	A2	19850624	JP 1984-240379	19841114
JP 06035459	B4	19940511		
US 4740233	A	19880426	US 1986-931469	19861117
US 4741764	A	19880503	US 1983-933717	19861121
US 4755212	A	19880705	US 1986-934271	19861121
US 4818273	A	19890404	US 1986-940480	19861210
CA 1232269	A2	19880202	CA 1987-527878	19870121
CA 1232276	A2	19880202	CA 1987-527880	19870121
GB 2196627	A1	19880505	GB 1987-9293	19870416
GB 2196627	B2	19880901		
GB 2196628	A1	19880505	GB 1987-9294	19870416
GB 2196628	B2	19880824		
AU 8822900	A1	19890105	AU 1988-22900	19880928
AU 613665	B2	19910808		
US 4886883	A	19891212	US 1988-261460	19881021
US 4954163	A	19900904	US 1989-406676	19890913
US 4983772	A	19910108	US 1989-406666	19890913

PRIORITY APPLN. INFO.:

US 1983-551758	A	19831114
EP 1984-113656	A	19841112
EP 1989-102979	A	19841112
IL 1984-73486	A3	19841112
CA 1984-467616	A3	19841113
GB 1984-28740	A3	19841114
US 1985-768393	A3	19850822
US 1986-940480	A3	19861210
US 1988-261460	A3	19881021

OTHER SOURCE(S): CASREACT 103:196117; MARPAT 103:196117
GI



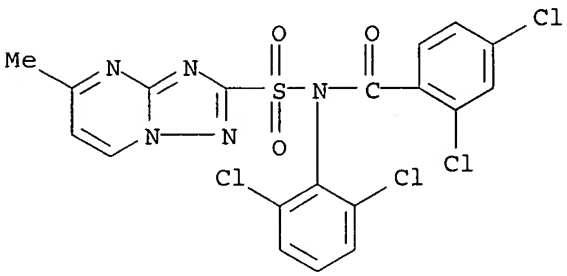
I

AB The title compds. [I; R = (substituted) (hetero)aryl; R1, R2, R3 = H, (halo)alkyl, OH, (substituted) alkoxy, (substituted) aryl, halo, alkylthio, arylthio, (substituted) amino, R1R2 or R2R3 may form a ring], useful as herbicides and inhibitors of nitrification of amino nitrogen in soil (effective at ≥ 0.05 weight%), were prepared by various methods. Thus, stirring a mixture of 2.78 g I [R = 2,3,6-Br(MeO2C)MeC6H2, R1 = R3 = Me, R2 = H), 30 mL 5% aqueous NaOH, and 30 mL H2O at 25° for 2.5 h gave, after acidification, 2.10 g I [R = 2,3,6-Br(HO2C)MeC6H2, R1 = R3 = Me, R2 = H].

IT **98968-07-1P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as intermediate for herbicidal triazolopyrimidine sulfonamide)

RN 98968-07-1 CAPLUS

CN Benzamide, 2,4-dichloro-N-(2,6-dichlorophenyl)-N-[(5-methyl[1,2,4]triazolo[1,5-a]pyrimidin-2-yl)sulfonyl]- (9CI) (CA INDEX NAME)



L15 ANSWER 16 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1983:453512 CAPLUS

DOCUMENT NUMBER: 99:53512

TITLE: Action of Grignard reagents on phthalides, phthalimides and related compounds. Part II. Interaction of tetrachloro-3-(p-N-arylsulfonamidobenzal)phthalides with Grignard reagents, hydrazine hydrate and amines

AUTHOR(S): El-Sharief, A. M. S.; El-Maghraby, A. A.; El-Said, A. S.

CORPORATE SOURCE: Fac. Sci., Al-Azhar Univ., Cairo, Egypt

SOURCE: Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (1983), 22B(1), 87-90
CODEN: IJSBDB; ISSN: 0376-4699

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 99:53512

GI

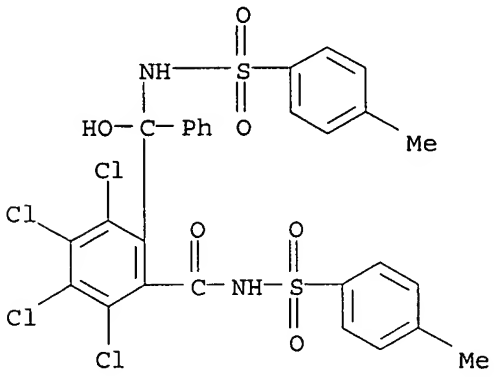
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The tetrachlorophthalides I (R = Ph, p-MeC6H4), prepared from p-(RNHSO2)C6H4CH2CO2H and phthalic anhydride, reacted with Grignard reagents to give the diketones II (R1 = Ph, Pr, Bu) and indones III (R1 = PhCH2, Et, Bu). III were also prepared from indandiones and Grignard reagents. I reacted with H2NNH2 and amines to give phthalazones IV and phthalimidines V [R2 = (un)substituted phenyl].

IT **86355-38-6P 86355-39-7P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and dehydration of)

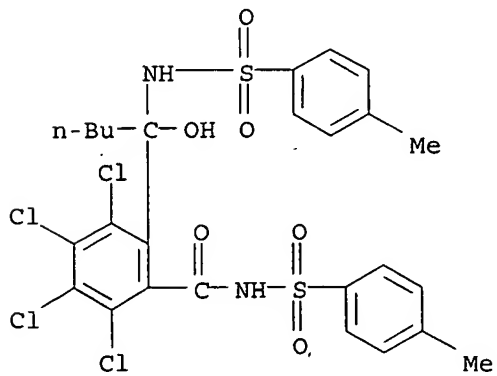
RN 86355-38-6 CAPLUS

CN Benzamide, 2,3,4,5-tetrachloro-6-[hydroxy[[(4-methylphenyl)sulfonyl]amino]phenylmethyl]-N-[(4-methylphenyl)sulfonyl]- (9CI) (CA INDEX NAME)

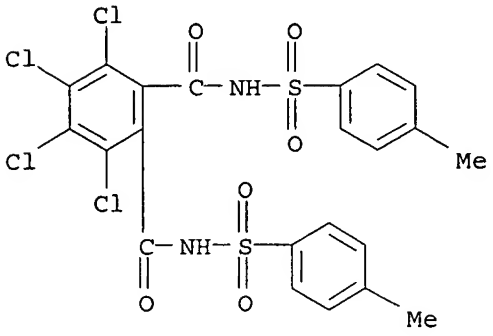


RN 86355-39-7 CAPLUS

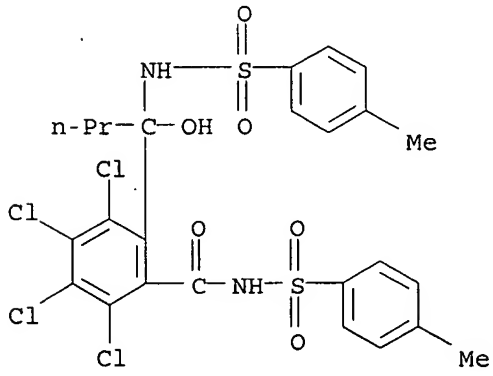
CN Benzamide, 2,3,4,5-tetrachloro-6-[1-hydroxy-1-[[(4-methylphenyl)sulfonyl]amino]pentyl]-N-[(4-methylphenyl)sulfonyl]- (9CI) (CA INDEX NAME)



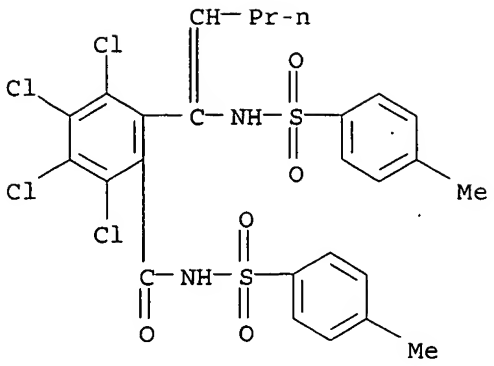
IT **86355-37-5P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction with Grignard reagents)
RN 86355-37-5 CAPLUS
CN 1,2-Benzenedicarboxamide, 3,4,5,6-tetrachloro-N,N'-bis[(4-methylphenyl)sulfonyl]- (9CI) (CA INDEX NAME)



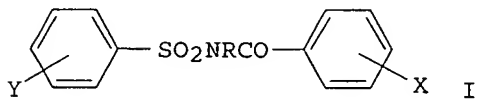
IT **86355-40-0P 86355-41-1P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 86355-40-0 CAPLUS
CN Benzamide, 2,3,4,5-tetrachloro-6-[1-hydroxy-1-[[(4-methylphenyl)sulfonyl]amino]butyl]-N-[(4-methylphenyl)sulfonyl]- (9CI) (CA INDEX NAME)



RN 86355-41-1 CAPLUS
CN Benzamide, 2,3,4,5-tetrachloro-N-[(4-methylphenyl)sulfonyl]-6-[1-[[(4-methylphenyl)sulfonyl]amino]-1-pentenyl]- (9CI) (CA INDEX NAME)



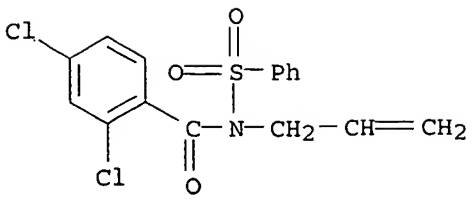
L15 ANSWER 17 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1983:193285 CAPLUS
DOCUMENT NUMBER: 98:193285
TITLE: Phytotoxic activity of benzenesulfonamide derivatives. Part I. Phytotoxic activity of N-phenylsulfonylbenzamides
AUTHOR(S): Yoneyama, Koichi; Omokawa, Hiroyoshi; Ichizen, Nobumasa; Takeuchi, Yasutomo; Konnai, Makoto; Takematsu, Tetsuo
CORPORATE SOURCE: Fac. Agric., Utsunomiya Univ., Utsunomiya, 321, Japan
SOURCE: Agricultural and Biological Chemistry (1983), 47(3), 593-6
CODEN: ABCHA6; ISSN: 0002-1369
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



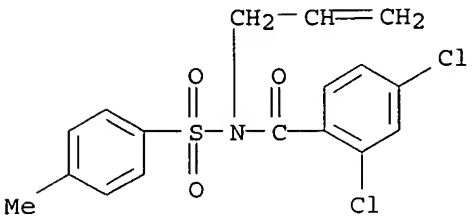
AB N-Phenylsulfonylbenzamides I (where X = halo, Me, or MeO; Y = H, Me, or Cl) were synthesized, and their biol. activities were tested. Some of these compds. showed a high phytotoxic activity against barnyard grass with no significant effect on rice plants at their germination stage. In particular, both N-allyl-2-chloro-N-phenylsulfonylbenzamide [66896-80-8] and N-allyl-2,4-dichloro-N-phenylsulfonylbenzamide [**66896-81-9**] were the most active and a herbicidal test of these compds. was conducted under paddy field conditions.

IT **66896-81-9P 66897-38-9P 66897-40-3P**
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation and phytotoxicity of)

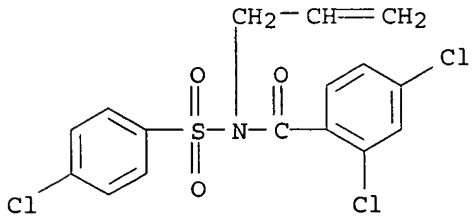
RN 66896-81-9 CAPLUS
CN Benzamide, 2,4-dichloro-N-(phenylsulfonyl)-N-2-propenyl- (9CI) (CA INDEX NAME)



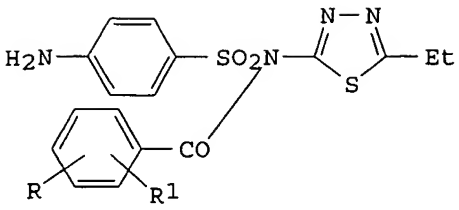
RN 66897-38-9 CAPLUS
CN Benzamide, 2,4-dichloro-N-[(4-methylphenyl)sulfonyl]-N-2-propenyl- (9CI) (CA INDEX NAME)



RN 66897-40-3 CAPLUS
CN Benzamide, 2,4-dichloro-N-[(4-chlorophenyl)sulfonyl]-N-2-propenyl- (9CI) (CA INDEX NAME)



L15 ANSWER 18 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1979:420410 CAPLUS
DOCUMENT NUMBER: 91:20410
TITLE: Reaction of ethazole with halogen- and nitro-substituted benzoic acids
AUTHOR(S): Kalashnikov, V. P.; Turkevich, N. M.
CORPORATE SOURCE: L'vov. Gos. Med. Inst., Lvov, USSR
SOURCE: Farmatsiya (Moscow, Russian Federation) (1979), 28(1), 31-3
CODEN: FRMTAL; ISSN: 0367-3014
DOCUMENT TYPE: Journal
LANGUAGE: Russian
OTHER SOURCE(S): CASREACT 91:20410
GI



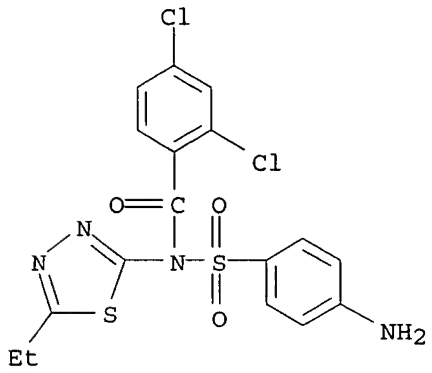
I

AB Ethazoles I (R, R1 = H, Cl, iodo, Br, O2N) were prepared in 67-93% yields by acylation of ethazole with RR1C6H3CO2H.

IT **70345-73-2P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 70345-73-2 CAPLUS

CN Benzamide, N-[(4-aminophenyl)sulfonyl]-2,4-dichloro-N-(5-ethyl-1,3,4-thiadiazol-2-yl)- (9CI) (CA INDEX NAME)

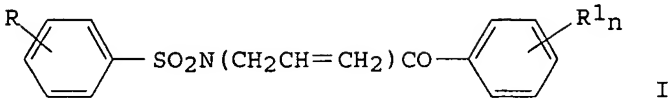


L15 ANSWER 19 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1979:198868 CAPLUS
DOCUMENT NUMBER: 90:198868
TITLE: (Phenylsulfonyl)(propenyl)benzamide herbicides
INVENTOR(S): Takematsu, Tetsuo; Konnai, Makoto; Omokawa, Hiroyoshi
PATENT ASSIGNEE(S): Utsunomiya University, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 53145916	A2	19781219	JP 1977-58369	19770520
JP 56037202	B4	19810829		
US 4157257	A	19790605	US 1977-837911	19770929
NL 7710730	A	19780404	NL 1977-10730	19770930
DE 2744137	A1	19780406	DE 1977-2744137	19770930
DE 2744137	C2	19840510		
BR 7706563	A	19780606	BR 1977-6563	19770930
GB 1574477	A	19800910	GB 1977-40732	19770930

CA 1092153	A1	19801223	CA 1977-287838		19770930
FR 2366270	A1	19780428	FR 1977-29708		19771003
FR 2366270	B1	19800418			
SU 893129	A3	19811223	SU 1977-2534904		19771018
CH 635316	A	19830331	CH 1977-12005		19780101
SU 759046	D	19800823	SU 1978-2632545		19780627
SU 900805	A3	19820123	SU 1978-2632549		19780705
SU 1036247	A3	19830815	SU 1978-2632599		19780705
US 4233061	A	19801111	US 1978-974517		19781229
PRIORITY APPLN. INFO.:			JP 1976-118343	A	19761001
			JP 1977-58369	A	19770520
			JP 1977-92803	A	19770802
			US 1977-837911	A3	19770929

GI



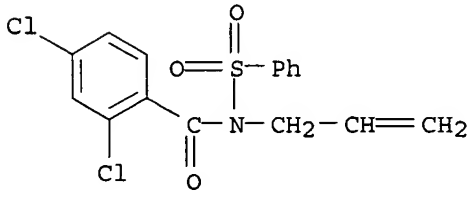
I

AB N-(phenylsulfonyl)-N-(2-propenyl)benzamides I (R = H, Me, Et, MeO, EtO, or halo; R1 = Me, MeO, or halo; n = 1-4) are herbicides. Thus, 2-chloro-N-(2-propenyl)-N-(phenylsulfonyl)benzamide [66896-80-8] (125 g/10 acre) controlled Echinochloa crus-galli and Scirpus juncoides in rice paddies. Preparative data is given.

IT **66896-81-9P 66897-37-8P 66897-38-9P**
66897-39-0P 66897-40-3P 66897-42-5P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation and herbicidal activity of)

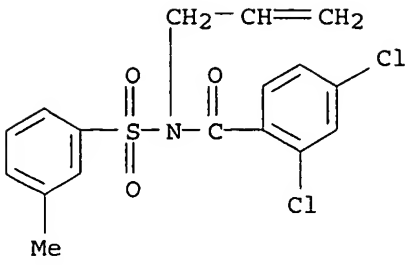
RN 66896-81-9 CAPLUS

CN Benzamide, 2,4-dichloro-N-(phenylsulfonyl)-N-2-propenyl- (9CI) (CA INDEX NAME)

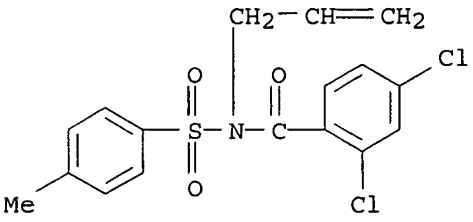


RN 66897-37-8 CAPLUS

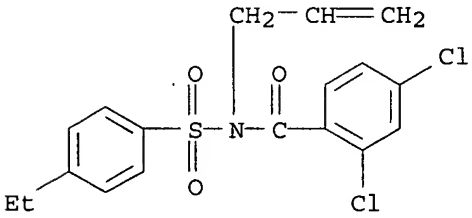
CN Benzamide, 2,4-dichloro-N-[(3-methylphenyl)sulfonyl]-N-2-propenyl- (9CI) (CA INDEX NAME)



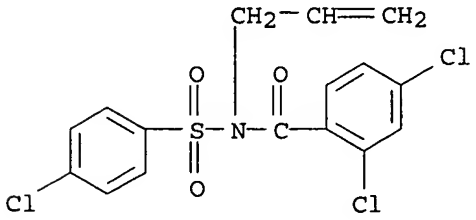
RN 66897-38-9 CAPLUS
CN Benzamide, 2,4-dichloro-N-[(4-methylphenyl)sulfonyl]-N-2-propenyl- (9CI) (CA INDEX NAME)



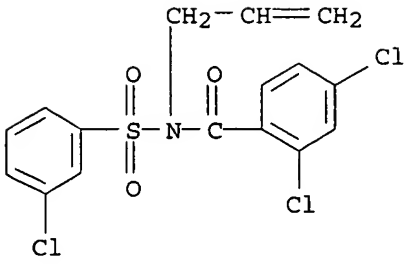
RN 66897-39-0 CAPLUS
CN Benzamide, 2,4-dichloro-N-[(4-ethylphenyl)sulfonyl]-N-2-propenyl- (9CI) (CA INDEX NAME)



RN 66897-40-3 CAPLUS
CN Benzamide, 2,4-dichloro-N-[(4-chlorophenyl)sulfonyl]-N-2-propenyl- (9CI) (CA INDEX NAME)



RN 66897-42-5 CAPLUS
CN Benzamide, 2,4-dichloro-N-[(3-chlorophenyl)sulfonyl]-N-2-propenyl- (9CI) (CA INDEX NAME)

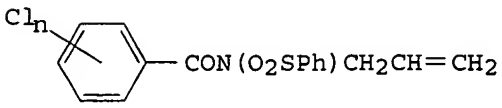


L15 ANSWER 20 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1978:508662 CAPLUS
DOCUMENT NUMBER: 89:108662
TITLE: N-Substituted benzenesulfonamides
INVENTOR(S): Takematsu, Tetsuo; Chikauchi, Masato; Shigekawa, Hironobu
PATENT ASSIGNEE(S): Utsunomiya University, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 53044543	A2	19780421	JP 1976-118343	19761001
JP 55045072	B4	19801115		
US 4157257	A	19790605	US 1977-837911	19770929
NL 7710730	A	19780404	NL 1977-10730	19770930
DE 2744137	A1	19780406	DE 1977-2744137	19770930
DE 2744137	C2	19840510		
BR 7706563	A	19780606	BR 1977-6563	19770930
GB 1574477	A	19800910	GB 1977-40732	19770930
CA 1092153	A1	19801223	CA 1977-287838	19770930
FR 2366270	A1	19780428	FR 1977-29708	19771003
FR 2366270	B1	19800418		
US 4233061	A	19801111	US 1978-974517	19781229

PRIORITY APPLN. INFO.:
JP 1976-118343 A 19761001
JP 1977-58369 A 19770520
JP 1977-92803 A 19770802
US 1977-837911 A3 19770929

GI



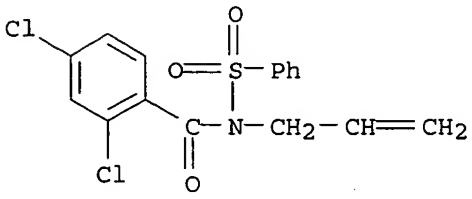
II

AB Amidation of H2C:CHCH2NHO2SPh (I) with Cln-substituted benzoyl chlorides (n = 0-5) and a base gave 11 title compds. II. I are herbicidal against Panicum crus-galli at 100-250 g/10 a. Thus, stirring I in C6H6 with NaH

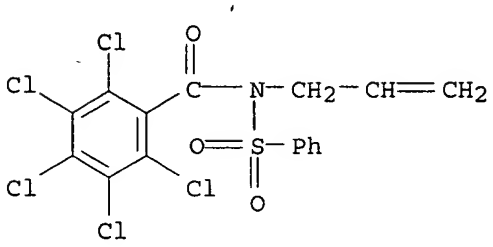
in C6H6 30 min at room temperature and mixing with 2-ClC6H4COCl in C6H6 2 h at room temperature gave 90% II (2-Cl, n = 1).

IT **66896-81-9P 67530-96-5P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as herbicides)

RN 66896-81-9 CAPLUS
CN Benzamide, 2,4-dichloro-N-(phenylsulfonyl)-N-2-propenyl- (9CI) (CA INDEX NAME)



RN 67530-96-5 CAPLUS
CN Benzamide, 2,3,4,5,6-pentachloro-N-(phenylsulfonyl)-N-2-propenyl- (9CI) (CA INDEX NAME)



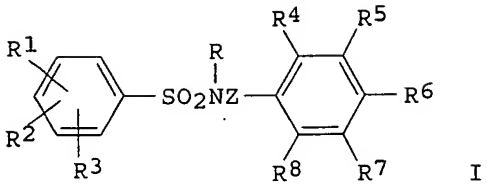
L15 ANSWER 21 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1978:442793 CAPLUS
DOCUMENT NUMBER: 89:42793
TITLE: Benzenesulfonamide derivatives
INVENTOR(S): Takematsu, Tetsuo; Konnai, Makoto; Omokawa, Hiroyoshi
PATENT ASSIGNEE(S): Utsunomiya University, Japan
SOURCE: Ger. Offen., 87 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2744137	A1	19780406	DE 1977-2744137	19770930
DE 2744137	C2	19840510		
JP 53044543	A2	19780421	JP 1976-118343	19761001
JP 55045072	B4	19801115		
JP 53145916	A2	19781219	JP 1977-58369	19770520
JP 56037202	B4	19810829		
JP 54027535	A2	19790301	JP 1977-92803	19770802
JP 55045542	B4	19801118		

PRIORITY APPLN. INFO.: JP 1976-118343 A 19761001

JP 1977-58369 A 19770520
JP 1977-92803 A 19770802

GI



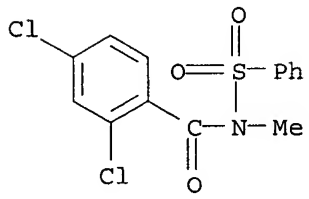
I

AB Eighty-nine benzenesulfonamides (I) [R = alkyl, (un)substituted with cyano, alkoxy, dialkylamino, alkenyl, or alkynyl; R1, R2, R3 = H, halo, alkyl, alkoxy; R4, R5, R6, R7, R8 = H, alkyl, alkoxy; Z = CO, CR9R10 (R9 = alkyl, R10 = H, alkyl); if Z = CO and R = unsubstituted alkyl, R4-R8 ≠ H], useful as herbicides (extensive data tabulated), were prepared by 3 methods. Thus, PhSO2NHCMe2Ph was stirred with NaH in DMF 30 min and the product PhSO2NNaCMe2Ph heated with MeBr with stirring 1 h to give 87% PhSO2NMeCMe2Ph. PhSO2NHCMe2Ph was prepared in 67% yield by dropping PhSO2Cl into H2NCMe2Ph in aqueous 10% NaOH <40° and stirring the mixture 1.5 h.

IT **66896-71-7P 66896-76-2P 66896-79-5P**
66896-81-9P 66897-37-8P 66897-38-9P
66897-39-0P 66897-40-3P 66897-42-5P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation and herbicidal activity of)

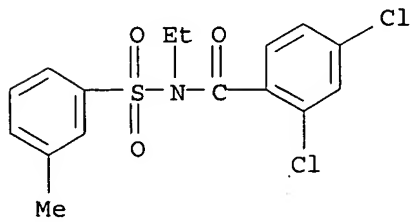
RN 66896-71-7 CAPLUS

CN Benzamide, 2,4-dichloro-N-methyl-N-(phenylsulfonyl)- (9CI) (CA INDEX NAME)

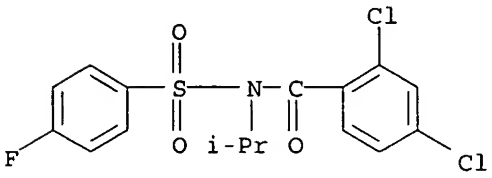


RN 66896-76-2 CAPLUS

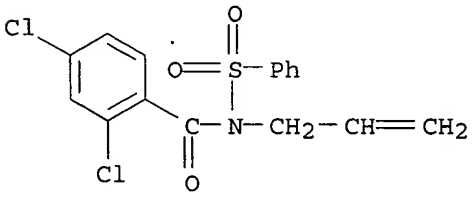
CN Benzamide, 2,4-dichloro-N-ethyl-N-[(3-methylphenyl)sulfonyl]- (9CI) (CA INDEX NAME)



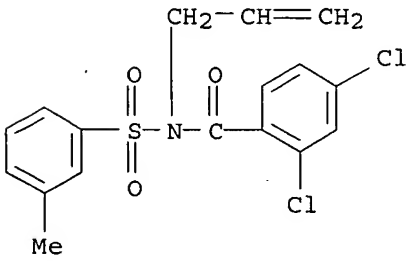
RN 66896-79-5 CAPLUS
CN Benzamide, 2,4-dichloro-N-[(4-fluorophenyl)sulfonyl]-N-(1-methylethyl)-(9CI) (CA INDEX NAME)



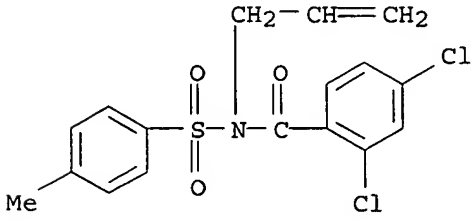
RN 66896-81-9 CAPLUS
CN Benzamide, 2,4-dichloro-N-(phenylsulfonyl)-N-2-propenyl- (9CI) (CA INDEX NAME)



RN 66897-37-8 CAPLUS
CN Benzamide, 2,4-dichloro-N-[(3-methylphenyl)sulfonyl]-N-2-propenyl- (9CI) (CA INDEX NAME)

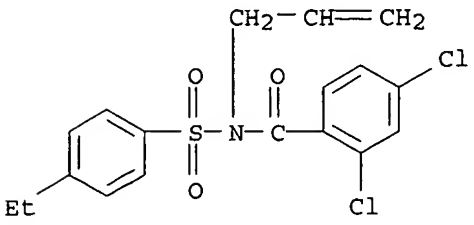


RN 66897-38-9 CAPLUS
CN Benzamide, 2,4-dichloro-N-[(4-methylphenyl)sulfonyl]-N-2-propenyl- (9CI) (CA INDEX NAME)

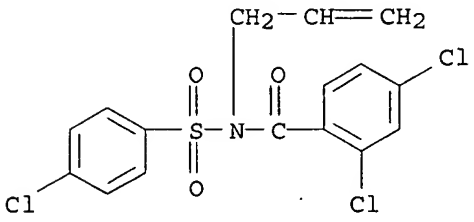


RN 66897-39-0 CAPLUS

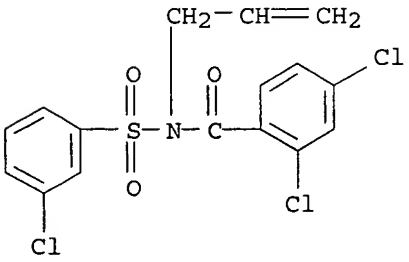
CN Benzamide, 2,4-dichloro-N-[(4-ethylphenyl)sulfonyl]-N-2-propenyl- (9CI) (CA INDEX NAME)



RN 66897-40-3 CAPLUS
CN Benzamide, 2,4-dichloro-N-[(4-chlorophenyl)sulfonyl]-N-2-propenyl- (9CI) (CA INDEX NAME)



RN 66897-42-5 CAPLUS
CN Benzamide, 2,4-dichloro-N-[(3-chlorophenyl)sulfonyl]-N-2-propenyl- (9CI) (CA INDEX NAME)



L15 ANSWER 22 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1970:486831 CAPLUS
DOCUMENT NUMBER: 73:86831
TITLE: Herbicidal N-(phenylsulfonyl)carboxamides
INVENTOR(S): Kochmann, Werner; Erfurt, Gerhard
SOURCE: Ger. (East), 2 pp.
CODEN: GEXXA8
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

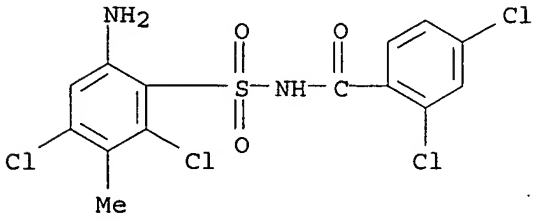
DD 71015		19700120	DD	19680206

AB RCONHSO2R' (I) were applied. Thus, Sinapis alba and Lepidium sativum were combatted by applying 10 kg/ha N-(4-methyl-3-nitrobenzenesulfonyl)-β-chloropropionic, N-(4-aminobenzenesulfonyl)-acetic, N-(2-chloro-4-methylbenzenesulfonyl)-α-chlorocrotonic, N-(4-amino-2,5-dichlorobenzenesulfonyl)-α,β-dichlorobutyric, N-(6-amino-2,4-dichloro-3-methylbenzenesulfonyl)-2,4-dichlorobenzoic, N-(4-chlorobenzenesulfonyl)-4-toluic, and N-(4-chloro-2-nitrobenzenesulfonyl)salicylic amides.

IT **29003-65-4**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)
(herbicides)

RN 29003-65-4 CAPLUS

CN Benzamide, N-[(6-amino-2,4-dichloro-m-tolyl)sulfonyl]-2,4-dichloro- (8CI) (CA INDEX NAME)



L15 ANSWER 23 OF 23 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1960:110346 CAPLUS
DOCUMENT NUMBER: 54:110346
ORIGINAL REFERENCE NO.: 54:20987g-i,20988a-b
TITLE: 3-Amino-2,4,6-triiodobenzoyl compounds
INVENTOR(S): Obendorf, Werner
PATENT ASSIGNEE(S): Osterreichische Stickstoffwerke Akt.-Ges.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
AT 209895		19600625	AT 1958-5196	19580723

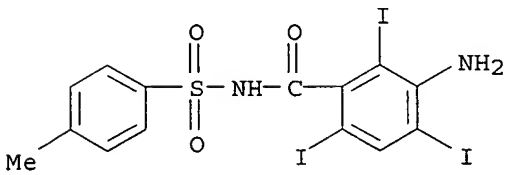
AB 3-Amino-2,4,6-triiodobenzoyl compds. were prepared by treating 2,4,6-triiodobenzoyl chlorides which were substituted in the 3-position by a NH2 group or by a group convertible into a NH2 group, with compds. having a reactive H atom bond to O or N, or with such derivs. thereof, in which H was replaced by metal, preferably with compds. containing aliphatic or aromatic OH groups, or with the metal derivs. thereof. Preferably, the reaction was conducted below 200° and especially below 160°, and in an inert organic solvent. The acid chlorides, especially 3-amino-2,4,6-triiodobenzoyl chloride or 3-thionylamino-2,4,6-triiodobenzoyl chloride may also be treated with aliphatic or aromatic primary or secondary amines, or with sulfonamides, or with the N-metallocompds. thereof. Alternatively, 3-amino-2,4,6-triiodobenzoyl compds. could be prepared in which the COCl group was replaced by the group

CON(Y1CO2H)Y2R, where Y1 was an optionally branched aliphatic or aromatic hydrocarbon residue which may be interrupted by O atoms, Y2 was a bivalent aliphatic, cycloaliphatic, or aromatic hydrocarbon residue with up to 10 C atoms, and R was H, OH, CO2H, or a 3-amino-2,4,6-triiodo residue, carrying in 1-position the group CON(Y1CO2H)-, by using as reaction components for the acid chloride compds. of the general formula HOOCY1NHY2R1, in which R1 was H, OH, CO2H, or the group HO2CY1NH-. There were prepared: 3-amino-2,4,6-triiodobenzoyl chloride, m. 93.5-5°; 3-thionylamino-2,4,6-triiodobenzoyl chloride, m. 107-9°; 3-amino-2,4,6-triiodobenzoyl piperidide, m. 207-10°; Me 3-amino-2,4,6-triiodobenzoate, m. 161.5-63°; 3-amino-2,4,6-triiodobenzanilide, m. 227-30°; N-(3-amino-2,4,6-triiodobenzoyl)anthranilic acid, m. 268-73°; N-(3-amino-2,4,6-triiodobenzoyl)-p-toluenesulfonamide, m. 120-7°. The compds. were of therapeutical value.

IT **100725-33-5**, Benzamide, 3-amino-2,4,6-triiodo-N-p-tolylsulfonyl- (preparation of)

RN 100725-33-5 CAPLUS

CN Benzamide, 3-amino-2,4,6-triiodo-N-p-tolylsulfonyl- (6CI) (CA INDEX NAME)



Inventor Search

=> d que l19

L16 71 SEA FILE=CAPLUS ABB=ON PLU=ON ("MADER M"/AU OR "MADER M M"/AU OR "MADER MARY"/AU OR "MADER MARY M"/AU OR "MADER MARY MARGARET"/AU)

L17 37 SEA FILE=CAPLUS ABB=ON PLU=ON ("MARTIN CABREJAS L M"/AU OR "MARTIN CABREJAS LUISA M"/AU OR "MARTIN CABREJAS LUISA MARIA"/AU OR "MARTIN CABREJAS M A"/AU OR "MARTIN CABREJAS MARIA"/AU OR "MARTIN CABREJAS MARIA A"/AU OR "MARTIN CABREJAS MARIA M"/AU)

L18 40 SEA FILE=CAPLUS ABB=ON PLU=ON ("RICHETT M"/AU OR "RICHETT M E"/AU OR "RICHETT MICHAEL E"/AU OR "RICHETT MICHAEL ENRICO"/AU)

L19 5 SEA FILE=CAPLUS ABB=ON PLU=ON (L16 AND (L17 OR L18)) OR (L17 AND L18)

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L19 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN

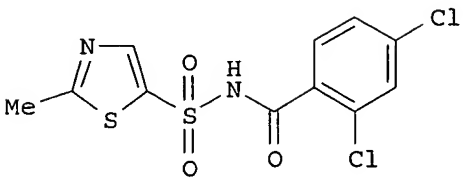
ACCESSION NUMBER: 2005:74670 CAPLUS

DOCUMENT NUMBER: 142:316746

TITLE: Acyl sulfonamide anti-proliferatives. Part 2: Activity of heterocyclic sulfonamide derivatives

AUTHOR(S): **Mader, Mary M.**; Shih, Chuan; Considine, Eileen; De Dios, Alfonso; Grossman, Cora Sue; Hipskind, Philip A.; Lin, Ho-Shen; Lobb, Karen L.; Lopez, Beatriz; Lopez, Jose E.; Cabrejas, Luisa M. Martin; **Richett, Michael E.**; White, Wesley

T.; Cheung, Yiu-Yin; Huang, Zhongping; Reilly, John E.; Dinn, Sean R.
CORPORATE SOURCE: Lilly Research Laboratories, Eli Lilly and Company, Indianapolis, IN, 46285, USA
SOURCE: Bioorganic & Medicinal Chemistry Letters (2005), 15(3), 617-620
CODEN: BMCLE8; ISSN: 0960-894X
PUBLISHER: Elsevier B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 142:316746
GI



I

AB The anti-proliferative activity of acylated heterocyclic sulfonamides is described in vascular endothelial growth factor-dependent human umbilical vascular endothelial cells (VEGF-HUVEC) and in HCT116 tumor cells in a soft agar diffusion assay. An example compound thus prepared and studied was 2,4-dichloro-N-[(2-methyl-5-thiazolyl)sulfonyl]benzamide (I).
REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2004:773118 CAPLUS
DOCUMENT NUMBER: 141:405648
TITLE: Acyl Sulfonamide Anti-Proliferatives: Benzene Substituent Structure-Activity Relationships for a Novel Class of Antitumor Agents
AUTHOR(S): Lobb, Karen L.; Hipskind, Philip A.; Aikins, James A.; Alvarez, Enrique; Cheung, Yiu-Yin; Considine, Eileen L.; De Dios, Alfonso; Durst, Gregory L.; Ferritto, Rafael; Grossman, Cora Sue; Giera, Deborah D.; Hollister, Beth A.; Huang, Zhongping; Iversen, Philip W.; Law, Kevin L.; Li, Tiechao; Lin, Ho-Shen; Lopez, Beatriz; Lopez, Jose E.; Cabrejas, Luisa M. Martin; McCann, Denis J.; Molero, Victoriano; Reilly, John E.; **Richett, Michael E.**; Shih, Chuan; Teicher, Beverly; Wikel, James H.; White, Wesley T.; **Mader, Mary M.**
CORPORATE SOURCE: Lilly Research Laboratories, Eli Lilly and Company, Indianapolis, IN, 46285, USA
SOURCE: Journal of Medicinal Chemistry (2004), 47(22), 5367-5380
CODEN: JMCMAR; ISSN: 0022-2623
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 141:405648
AB Two closely related diaryl acylsulfonamides were recently reported as potent antitumor agents against a broad spectrum of human tumor xenografts

(colon, lung, breast, ovary, and prostate) in nude mice. Especially intriguing was their activity against colorectal cancer xenografts. In this paper, rapid parallel synthesis along with traditional medicinal chemical techniques were used to quickly delineate the structure-activity relationships of the substitution patterns in both Ph rings of the acylsufonamide anti-proliferative scaffold. Although the mol. target of the compds. remains unclear, we determined that the vascular endothelial growth factor-dependent human umbilical vein endothelial cells assay in combination with a soft agar disk diffusion assay allowed for optimization of potency in the series. The pharmacokinetic properties and in vivo activity in an HCT116 xenograft model are reported for representative compds.

REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

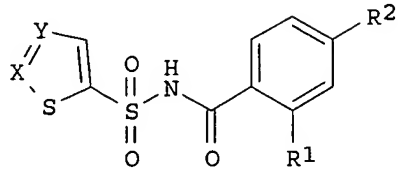
L19 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2004:467856 CAPLUS
DOCUMENT NUMBER: 141:38521
TITLE: Preparation of antitumor N-benzoyl sulfonamides
INVENTOR(S): **Mader, Mary Margaret; Martin-Cabrejas, Luisa Maria; Richett, Michael Enrico**
PATENT ASSIGNEE(S): Eli Lilly and Company, USA
SOURCE: PCT Int. Appl., 32 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
WO 2004048329	A1	20040610	WO 2003-US35041		20031113
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW					
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG					
AU 2003290592	A1	20040618	AU 2003-290592		20031113
EP 1565438	A1	20050824	EP 2003-783127		20031113
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK					
US 2006106053	A1	20060518	US 2005-535002		20050512
PRIORITY APPLN. INFO.:			US 2002-428891P	P	20021122
			WO 2003-US35041	W	20031113

OTHER SOURCE(S): MARPAT 141:38521
GI

NO 2004001316	A	20040330	NO 2004-1316		20040330
ZA 2004003089	A	20050422	ZA 2004-3089		20040422
PRIORITY APPLN. INFO.:			US 2001-352012P	P	20011025
			WO 2002-US31568	W	20021015

OTHER SOURCE(S): MARPAT 138:353973
GI



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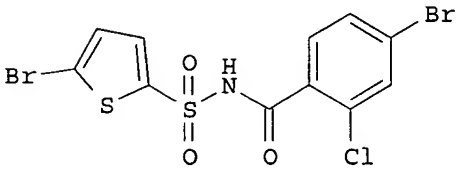


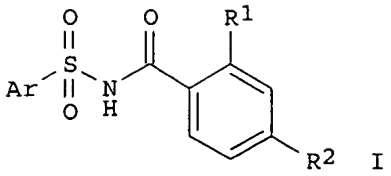
II

AB The title compds. [I; X:Y = CR4:CR3, CR5:N; R1 = halo, alkyl, CF3; R2 = halo, NO2, alkyl, CF3; R3 = H, alkyl, alkoxy, alkylthio, halo; R4 = H, halo, alkoxy, alkyl, etc.; R5 = halo, alkyl, alkoxy] and their pharmaceutically acceptable base addition salts, useful for treating susceptible neoplasms such as tumors of colon and rectum, were prepared Thus, reacting 4-bromo-2-chlorobenzoic acid with 5-bromothiophene-2-sulfonamide in the presence of DMAP and carbodiimide polystyrene resin for 72 h in CH2Cl2 followed by addition of sulfonated polystyrene resin (MP-TsOH) afforded the sulfonamide II which showed IC50 of 17.0 μM against human HCT116 colon carcinoma cell growth.

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:	2003:184046 CAPLUS
TITLE:	Acyl sulfonamide antiproliferatives: Structure-activity relationships for novel antitumor agents
AUTHOR(S):	**Mader, Mary M.**; Considine, Eileen L.; de Dios, Alfonso; Durst, Gregory; Ferrito, Rafael; Grossman, Cora Sue; Hipskind, Philip A.; Li, Tiechao; Lin, Ho-shen; Lobb, Karen; Lopez, Beatriz; Lopez, Jose E.; Martin, Luisa; **Richett, Michael E.**; Shih, Chuan; White, Wesley T.; Wikel, James H.; Teicher, Beverly; Alvarez, Enrique; Corbett, Thomas H.; Cheung, Yiu-Yen; Dinn, Sean R.; Huang, Zhongping; Reilly, John E.
CORPORATE SOURCE:	Lilly Research Laboratories, Eli Lilly and Company, Indianapolis, IN, 46285, USA
SOURCE:	Abstracts of Papers, 225th ACS National Meeting, New Orleans, LA, United States, March 23-27, 2003 (2003), MEDI-075. American Chemical Society: Washington, D. C.



I

AB The title compds. [I; Ar = benzofuryl, benzodioxolyl, benzothienyl, thienopyridyl, etc.; R1 and R2 are either both halo, both CF3, or one is halo and the other is alkyl], useful as antitumor agents, were prepared Thus, reacting 2,4-dichlorobenzoic acid with naphthalene-2-sulfonamide afforded N-(2,4-dichlorobenzoyl)-naphthalene-2-sulfonamide. The exemplified compds. I showed IC50 of ≤ 1.2 μM in the assay for inhibition of HUVEC proliferation. The pharmaceutical composition comprising the compound I is claimed.

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2003:335090 CAPLUS
DOCUMENT NUMBER: 138:353973
TITLE: Preparation of thiophene- and thiazolesulfonamides as antineoplastic agents
INVENTOR(S): De Dios, Alfonso; Grossman, Cora Sue; Hipskind, Philip Arthur; Lin, Ho-Shen; Lobb, Karen Lynn; Lopez de Uralde Garmendia, Beatriz; Lopez, Jose Eduardo; **Mader, Mary Margaret; Richett, Michael Enrico**; Shih, Chaun
PATENT ASSIGNEE(S): Eli Lilly and Company, USA
SOURCE: PCT Int. Appl., 54 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003035629	A1	20030501	WO 2002-US31568	20021015
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2463300	AA	20030501	CA 2002-2463300	20021015
BR 2002012386	A	20040727	BR 2002-12386	20021015
EP 1442030	A1	20040804	EP 2002-802117	20021015
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
CN 1575286	A	20050202	CN 2002-821215	20021015
JP 2005511547	T2	20050428	JP 2003-538145	20021015
US 2004198784	A1	20041007	US 2004-490935	20040326

CODEN: 69DSA4
DOCUMENT TYPE: Conference; Meeting Abstract
LANGUAGE: English

AB The SAR of biarylacylsulfonamides possessing potent solid tumor antiproliferative activity is described. The series, nicknamed the Acyl Sulfonamide Anti-Proliferative or ASAP compds., was found through screening for selectivity of compds. for solid tumors rather than leukemias, and determination of their mode of action is ongoing. An NCI COMPARE anal. demonstrates the compound class to have a novel mode of action, with potent activity against colorectal cancer. The SAR was developed through rapid parallel synthesis as well as traditional synthetic methods, and one of these compds. will be advanced to the clinic in the coming year.